LIBRARY OF CONGRESS
RECEIVED
OCT 8 1901
PERIODICAL DIV.

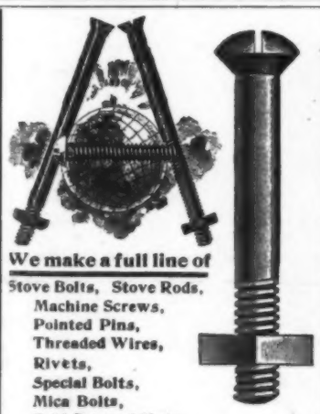
The
American Artisan
THE HARDWARE RECORD

Volume 42.—No. 14. CHICAGO, OCTOBER 5, 1901. $2.00 Per Year.

May have pouch feed and flush reservoir if wanted.

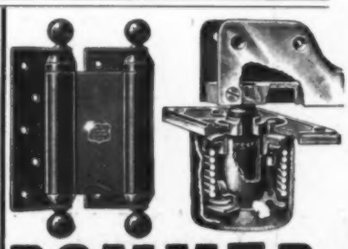
Everybody knows about Monarch Ranges. We can help you sell them at a profit. Our plan does the work without giving away any "biscuits." A postal card will bring in return our catalogue and a good sized letter. You will find both worth reading.

Malleable Iron Range & Manfg. Co.
BEAVER DAM, WIS.



We make a full line of
Stove Bolts, Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

Atlas Bolt & Screw Co.
CLEVELAND, O.



BOMMER SPRING HINGES.
BOMMER BROS. BROOKLYN, N.Y.

A UNIVERSAL REMEDY FOR
LEAKY ROOFS.

The valuable qualities of a good roofing cement are firm adhesiveness and elasticity. These qualities the

AMERICAN SEAL BUILDERS' AND ROOFERS'
ELASTIC OIL CEMENT

possesses. It will adhere firmly to Slate or Metal and will not crack or crumble. It is especially recommended for repairing leaks around chimneys, dormer windows, skylights, scuttles, firewalls and any place that requires fixing on a roof, either Slate, Tin or Shingle.

This Cement will answer to repair **a roof** when **Solder** can not be used.

MANUFACTURED BY
Wm. Connors Paint Mfg. Co.
TROY, N. Y.
WESTERN AGENTS—J. L. PERKINS & CO.,
241 Lake Street, - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

Trying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark;—you—know—what—you—are—doing—but—nobody—else—does.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

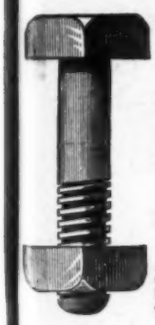
THIS SPACE FOR SALE
INQUIRE OF OWNER,
DANIEL STERN, 69 DEARBORN ST.,
CHICAGO.

Black Diamond Files and Rasps.
PERFECT—ALWAYS

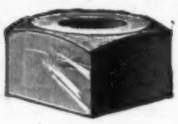
Twelve Medals Awarded.

At International Expositions.

C. & H. BARNETT CO.,
Black Diamond File Works. PHILADELPHIA, PA.



Columbus Bolt Works,
Columbus, O.



Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and
Bolts

ALL KINDS OF CARRIAGE FORGINGS. CATALOGUE ON APPLICATION.

The "Globe" Ventilator
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

For Perfectly Ventilating
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

Smoky Chimneys Cured.
"Globe" Ventilated Ridges. Send for Pamphlet.

Manufactured by
Globe Ventilator Co., Troy, N.Y.

BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

Lake and Dearborn Sts., CHICAGO.

"TABASCO" Water Heaters.

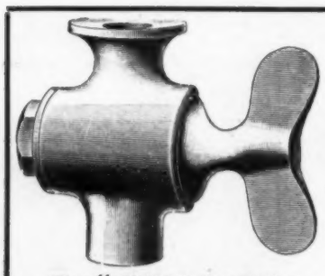
ALL STEEL, SELF-FEED, SHAKING GRATE.

FOR Small Residences, Greenhouses, Flats, Hotels, Baptisteries, Bath Houses, any place a supply of hot water is needed.

SEND FOR CATALOGUE.

Kewanee Boiler Compa'y
Kewanee, Ill.

CHICAGO STORE: 167-169 E. Lake St., CHICAGO.



The "OMEGA," 2-3 Size. To attach to bottom of can.

BEER, MILK CAN, OIL CAN, CREAM SEPARATOR

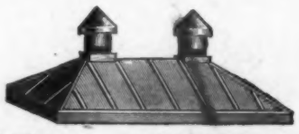
FAUCETS.

Various Sizes and Styles.

MANUFACTURED BY

CLARK NOVELTY CO., ROCHESTER, N. Y.

Also Mfrs. of The CLARK Kerosene Oil System for Heating Soldering Coppers.



"The Illinois"

METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL

C. C. Arbogast, Monterey, Va., writes: "I beg to take advantage of your kind offer of inserting a free want ad. in your journal. Am a regular subscriber to The American Artisan, and I can tell you, without an iota of flattery, that I find it indispensable."

There's Only One Warm Air Generator

THE KELSEY WARM AIR GENERATOR has been known by this name and so advertised for twelve years, and is manufactured solely by the Kelsey Furnace Company, Syracuse, N. Y.

The splendid results obtained with the "KELSEY" are becoming better known each year, and the demand for them has increased so rapidly that a certain firm or company hoping to reap some of the benefits of the now famous "KELSEY" have used the term "Warm Air Generator" in connection with a heater they make.

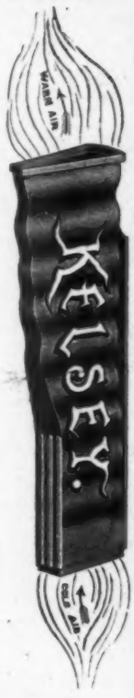
The construction, however, of the KELSEY WARM AIR GENERATOR, being fully covered by patents, will be protected and cannot be successfully imitated.

The Kelsey Warm Air Generator will increase your business.
The Kelsey method of warming the air is the best method.

Kelsey Furnace Co.

Makers of the Kelsey Warm Air Generator.

SYRACUSE, N. Y.



Tropic Sunshine Furnaces

A new line of modern, economical, durable furnaces.

The latest product of hot air furnaces from the

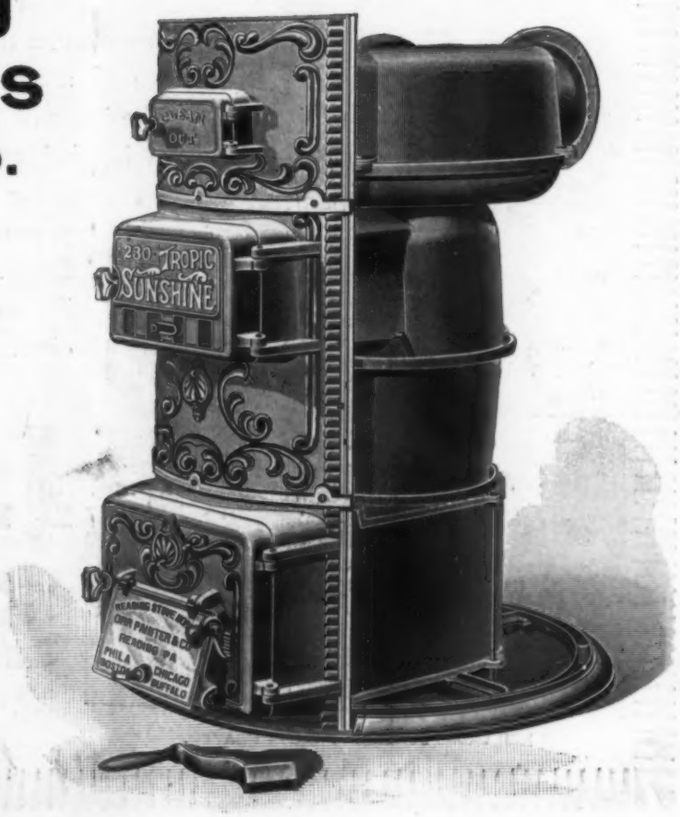
Sunshine Stove Shop

The Reading Stove Works
Orr, Painter & Co.
Reading, Pa.

Branches:

Boston,
86-90 Canal St.
Phila.,
64-66 N. 2nd St.
Buffalo,
411 William St.
Chicago,
155-159 S. Jefferson St.

Send for circulars and prices of the
Tropic Sunshine.



Red Cross Stov

ROYAL RED CROSS.

Are better than ever fo
ience of our Western tra
3,500 stoves in stock at

Royal Red Cross

The acknowledged leader of all parlor stoves.
No better parlor stove for the price has ever been produced
It is durable, beautiful in proportion and ornamentation.
For heating power and economy it has no equal.
Every stove a double heater.
Fitted with our celebrated Eclipse Grate.

RedCross Sunbeam

This parlor heater is provided, when desired, with an oven, a decided novelty for 1901 trade. This oven is a tip-top baker; does not detract from the looks of the stove; is most convenient to get a hurried meal with, and is a great fuel saver, avoiding many times the trouble and expense of starting the kitchen stove or range. It has a perfect flue system utilizing every particle of heat. It is easily operated and requires very little attention.

RED CROSS SUNBEAM PARLOR HEATER.

Nev

Note t
consumer-
furnace or
Saves fue
smoke an
heat.

With

Send f

J. P. Linde
Sons, - - M

Co-Operative Foundry Co., R

toves & Ranges

er for 1901. For the conven=
n trade, we carry more than
ck at all times at Milwaukee.

oss

een produced.
mentation.
equal.

Red Cross Oak

Oaks have come to stay.

Nickeled register wheel in feed door.
Mica illumination in upper feed door.
Gas ring top of fire pot, furnishing air to the surface of the fire, insuring perfect combustion of all the gases. No catches, every door being secured by turnbuckle. Cast iron lining resting on the fire pot protecting jacket from extreme heat, and many other desirable features.

FULL NICKELED DOUBLE HEATER.
For Hard or Soft Coal or Wood.

New Ajax Furnace

Note the down draft hot blast gas and smoke consumer—entirely new and original, no other furnace on the market has this special feature. Saves fuel, at the same time burns all the smoke and gases, consequently gives more heat.

With steel or all cast iron radiator.

Send for Special Furnace Catalogue.

ORNAMENTED CAST FRONT, TRIANGULAR GRATE.
For Hard or Soft Coal.

demann &

- Milwaukee, Wis.

y Co., ROCHESTER, N. Y.

White's Maxim Steel Range.

We stake our reputation as steel range builders on the economy of fuel, quick baking and durability of this range.

It has been our endeavor in making this range to present the trade a steel range that is absolutely without a peer.

NO DELAY

IN FILLING ORDERS FOR OUR STEEL RANGES AND STEEL COOKS AS WE LAID IN A PLENTIFUL SUPPLY OF STEEL BEFORE THE STRIKE AND HAVING A LARGE ASSORTMENT ON HAND WE ARE IN A POSITION TO SHIP PROMPTLY.

Thomas White Stove Co.

Quincy, Ill.

Moore's Air-Tight Heater

Home, Sweet Home.

There is no place like home, and there's no home so comfortable as that which is furnished with a MOORE'S AIR-TIGHT HEATER.

This remarkable stove has now been before the American people for ten years, and has made a record for efficiency and economy which is unexcelled.

Joliet Stove Works

JOLIET, ILLINOIS.

"Norman" Steel Range

BUILT LIKE A WATCH

ATTRACTIVE.

ECONOMICAL.

DURABLE.

In the **"Norman"** Range are embodied up-to-date features that sell stoves.

The Fire Box is Oval in Shape and of Goodly Dimensions.

Either Duplex or Dockash Grates can be used. Grates removable through end door without removing any fire box linings.

Send for Illustrated Catalogue descriptive of Our Full Line of Steel and Cast Ranges and Heaters.

Galusha Stove Co., Makers, Rochester, N. Y.

ENTIRELY NEW.

We mean the stove but the patterns are of Vintage of 1860.

They are heavy and full sized, same as your grandfathers warmed by.

The Tamale Can, Hot Blasts and the other freaks, like the measles, have their periodical runs. Then they come back for the old reliable. We are making thousands of them again this year. Ask us about the best box stove ever made.

The Portsmouth Stove & Range Co.
PORTSMOUTH, O.

THE BUSIEST MAKERS OF STOVES & RANGES IN THE WORLD

Morley Bros.
SAGINAW, MICH.
AGENTS FOR NORTHWEST.

Our Steel Ranges and Stoves

Are made under our personal supervision. The management attends to each detail in its several branches.

We employ in the making of our goods the

Best Material
Best Mechanics
Best Supervision

That money can procure.

Detroit Steel Range Co.

Factory and Show Room:

13-45 Widman Place,
DETROIT, MICH.

CinderellA Steel Ranges

Made to Meet Every Requirement.

We are making the Steel Range business a specialty—just as much so as if we did not make anything else.

We have a separate plant for that purpose, equipped with modern appliances, operated by the best experience.

If you handle Steel Ranges, we want you to buy them from us.

Our prices are low enough to make it worth your while to deal with us, and high enough to insure the best possible workmanship and materials.

We can fill your orders promptly.

Our Catalogue is at your disposal.

STOVES AND RANGES CINDERELLA NEVER FAIL

Pittsburgh Stove & Range Company,

PITTSBURGH, PA.

Western Sales Agent:
W. D. SACER, 38 and 40 Michigan St., Chicago, Ill.

STOVES AND RANGES CINDERELLA NEVER FAIL

Air Tight Heaters

No. 75 SPECIAL.

SIZE: 43 inches in height over all.
BODY: 24 inches high; 24 inches deep; 17 inches wide.
Made from Smooth Steel with Heavy Sheet Steel Lining.

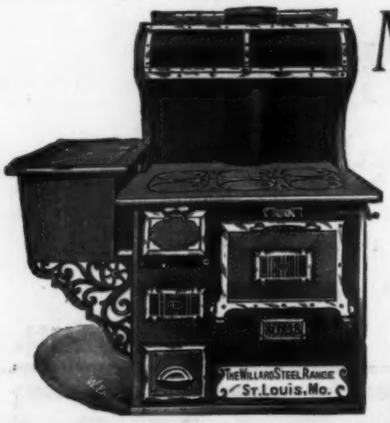
This Large Stove $2.25 Net.

We Can Ship Quick. ORDER NOW.

J. P. Lindemann & Sons

Manufacturers of TINWARE and SHEET IRON GOODS

MILWAUKEE, WIS.



Many a Dealer Has Gone to the Wall

Trying to handle goods that are only made for a few—the "so-called high grade" kind. . . . . .

Willard Steel Ranges "ARE AS GOOD AS THE BEST."

Made to meet the demand of the masses. If you are not already selling them, write and see if you can't secure the agency. Want one dealer in every town in the U. S.

WM. G. WILLARD, Manufacturer,

619 and 621 N. 4th St. ST. LOUIS, MO.

Gilt Edge Warm Air

AND

Combination Heaters

are leaders embodying points of furnace excellence possessed by no other furnaces. A large variety of sizes and styles, each especially adapted for a certain class of fuel. We are manufacturers of a complete line of warm air registers, safety pipe and tin galvanized iron furnace fittings.

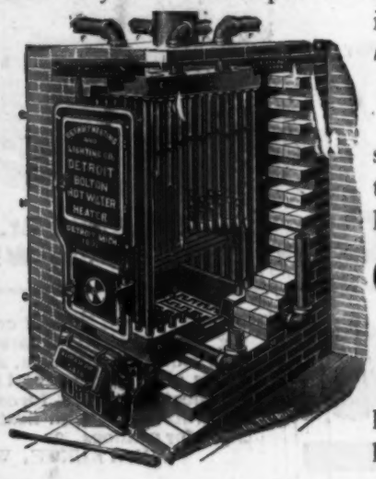
R. J. Schwab & Sons Co.,

MILWAUKEE, WIS.

Henry E. Davis, Girard, Ohio, writes: "Please discontinue my advertisement in your want column for a tinner. I have found one and think your paper is all right and your want column is all right, for letters of application come thick and fast."

The Burning Question of Heat

will be uppermost from now on in thousands of homes. Comfort, health and fuel economy will be the points of issue. You can meet them every one without a setback if you'll talk



The Bolton Hot Water Heater

Its durability, its efficiency, its economy in fuel consumption, its satisfaction-giving qualities in general; all these points are attested by the high endorsements we have to show from its users. Don't forget our

Combination Gas Machine and Mixing Regulator.

A light stronger than electricity and cheaper than kerosene. Let us show how we can help you and you help us on both these propositions. Write us.

Detroit Heating & Lighting Co.

DETROIT, MICH.

The Everlasting Chimney Cap

is the best in the world. The trade in all sections are handling it. Why don't you? It is a money maker.

The Schreiber & Conchar Mfg. Co. DUBUQUE, IA.

The "Eclipse" Adjustable Stove Truck

Made entirely of Steel and Malleable Iron.

OPEN.

CLOSED.

It is light, neat, and at the same time strong and durable. Will last a lifetime and saves its cost annually in preventing breakages, as it is impossible to tip or shove a stove from the ECLIPSE TRUCK.

Stellwagen & Kynoch, St. Ignace, Mich.

Ohio and U. S.

Wrought Steel Ranges

We are pioneers in steel range business; old in experience yet adopt modern up-to-date methods. Write for our catalog.

Tinnerman Steel Range Co.,
CLEVELAND, O.

If you wish your prosperity to be continuous make your advertising continuous. One begets the other.—The World.

A PROFITABLE BUSINESS
IS THE RESULT OF HANDLING
SOMETHING GOOD.

Mueller
Furnaces and Boilers

HAVE ACCOMPLISHED THIS RESULT
FOR OUR CUSTOMERS.

Heaters of All Sizes and for All Kinds of Fuel.

Write for Catalogue and Prices.

Everything in the Heating Line.

Established 1875

L. J. Mueller Furnace Co. 191 Reed St. Milwaukee, Wis.

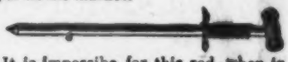
BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogs.
MILWAUKEE, WIS.

The YANKEE Hot Air DAMPER (Improved) All Steel.

Above All, Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest working and neatest damper on the market.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ½-inch cold-rolled steel and slips into damper very smoothly. **Sample sent to any dealer without charge.**



It is impossibe for this rod, when in position, to move either way.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., **Boston, Mass.**

NEW YORK: A. L. Canfield, 248-286 Pearl St. CHICAGO: Excelsior Steel Furnace Co.

Sizes: 6, 7, 8, 8½, 9, 10, 10½, 11, 12, 12½, 14, and 15.

Emperor Furnaces

For Wood

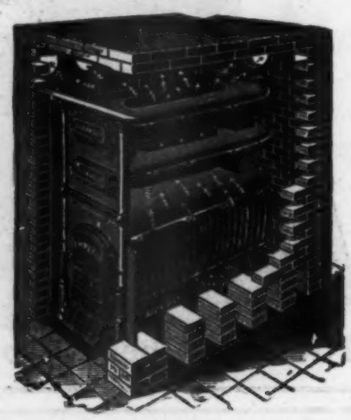
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros. Co.

Neenah, Wis.



Wisconsin Furnaces

stand for the best in furnace construction. They have features which make them trade winners.

Get our prices and printed matter.

Phipps Furnace Co.,

135 ONEIDA ST., MILWAUKEE, WIS.

F. W. Wohlenberg
Ida Grove, Ia.

Writes:

"I have secured a position through your paper and I think it pays any man to advertise who is looking for work."

WE MET A MAN THE OTHER DAY

who was paying 20% more for his registers, furnace pipe and fittings than we would have sold him the SAME material for. He was robbing his customer, losing money himself simply because he wasn't

A WIDE AWAKE MAN

Don't be in his class. Drop us a postal. We want your business and are bound to have it if price, prompt delivery, and courteous treatment is any inducement to you.

THE WIRETON TIME REGULATOR.

A marvelous Seller.
Will automatically turn on the draft of any furnace, steam, or hot water boiler.

THE HOFFMAN STEEL FURNACE.

The highest type of an exclusively hard coal furnace.

THE AUER SIDE WALL REGISTER.

No Cut Carpets.
A comfort as well as an ornament. No dirt, no dust, easily cleaned.

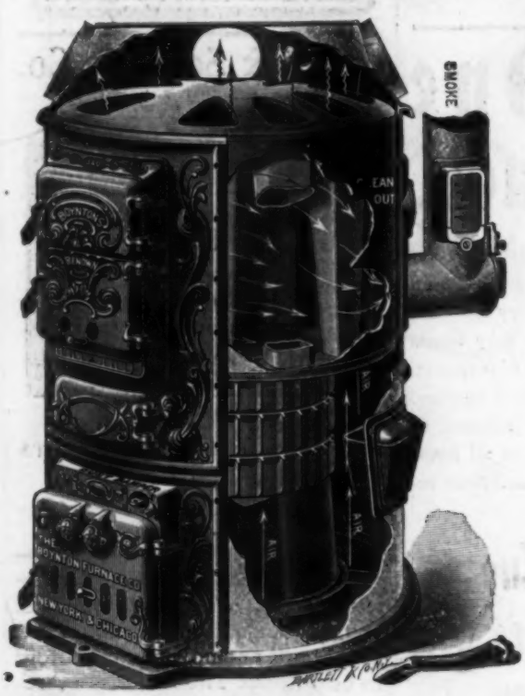
Our furnaces and specialties are great levers for pushing business your way. Exclusive agencies given.

WIRETON HEATING CO., MAIN OFFICE AND WORKS Blue Island, Ill.

CHICAGO OFFICE, 40 DEARBORN ST.

The making of heating apparatus—

Hot Water Heaters, Steam Heaters and Furnaces,



is our Specialty. In over fifty years of experience we have met with about every phase of the heating problem. The manufacture of economical and durable heating apparatus has been our constant aim, and our success has been fully demonstrated by our long continuance in this line.

REMEMBER, efficiency and durability are the sure tests of cheapness.

Catalogues, Price Lists and Discounts cheerfully furnished the trade.

The Boynton Furnace Co.,

New York and Chicago.

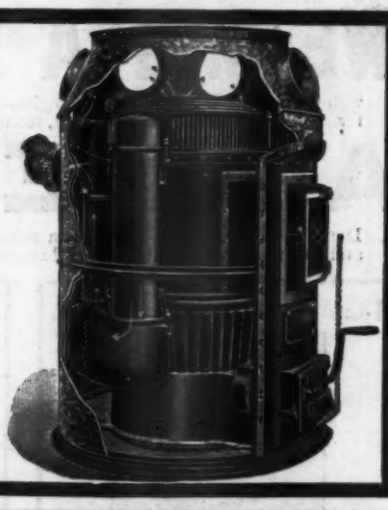
The Hen

with one chicken didn't strut about any more than some furnace makers who make a single furnace which appeals only to a small class of prospective buyers. Shrewd dealers are shaking these small fry makers and are taking agencies for

Floral City Furnaces

which are made in 15 distinct types of warm air and combination heaters for any class of work or any kind of fuel. Write for agency.

MONROE FOUNDRY & FURNACE CO.,
MONROE, MICH.



Diameter
14 to 24 Inches.
Six Sizes.

Smith's Circular OR Little Giant Water Heater

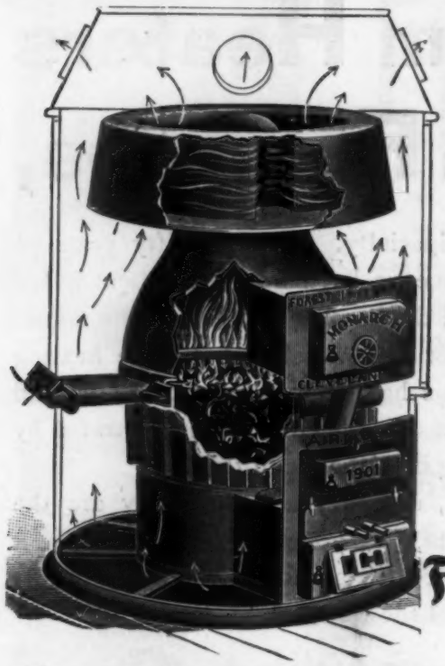
Is used in thousands of furnaces to heat cold rooms. If one of your customers tries to heat a house with a furnace about half big enough why don't you end his misery and make money besides by selling him one of Smith's Water Heaters. Write for circular and prices.

THE CHAS. SMITH CO.,
122 Lake Street, CHICAGO.

We ship our Register orders promptly.

73 Sizes.

INDEPENDENT REGISTER CO.
158 Champlain Street,
CLEVELAND, O.



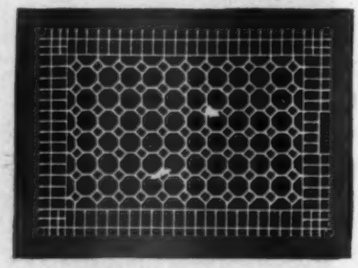
Not One Returned.

For four years **Monarch Furnaces** have been shipped to the trade on the condition that if they were not perfectly satisfactory they would be taken back free of expense. During this time several hundred furnaces have been shipped to many different states for all kinds of fuel and not one has been returned.

Forest City Foundry & Mfg. Co.
Cleveland, Ohio.

Henry & Scheible Co.

SUCCESSORS TO T. E. HENRY.
10 Long St. CLEVELAND, O.



ALL SIZES—ALL STYLES OF FINISH. PROMPT SHIPMENTS
Quality and finish unexcelled.

SEND FOR CATALOGUE.

RUFUS SLOTHOWER, Shullsburg, Wis., writes: "I consider your manuals of inestimable value to the craft and no tinner can afford to be without The American Artisan."

W. W. HOOPER - KOSCINSKO - MISS.- Writes: "I cannot get along without THE AMERICAN ARTISAN."

Superior Furnaces

Insure the greatest amount of heat for the fuel consumed. They are adapted to all climates and fuels and embrace in their construction the latest and most improved features known to modern furnace building.

New Superior Heater with Cast Radiator.

Powerful Heaters.

Economical in Fuel.

Easily Operated.

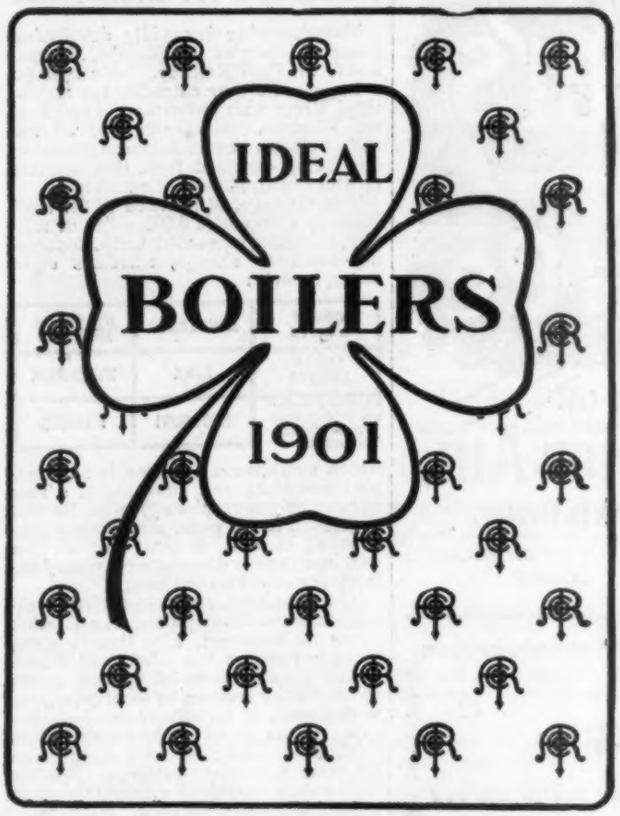
Absolutely Free from Dust, Gas and Smoke.

Write for Catalogue and Prices.

New Superior Warm Air Furnace.

Utica Heater Co. Manufacturers. Utica, N.Y.

CHICAGO HEATER & SUPPLY CO., - - 54 DEARBORN ST., CHICAGO, ILL.



OUR NEW

Boiler Catalogue

NOW READY.

A postal card request will secure a copy...

AMERICAN RADIATOR COMPANY

Lake and Dearborn Streets,

CHICAGO.

New York, Philadelphia, Buffalo, St. Louis, Minneapolis and Denver.

Established 1819.

MONITOR

The King of Hard Coal Base Burners.

The Absolute Monarch of the Heating World.

No other stove can compare with it in utilization of heat units, or in symmetry of design. The diving flue is in front, extending the entire width of the stove, and thus the greatest heat is drawn to the front of the stove where it is most needed. It will evenly heat the largest room as every particle of heat produced is radiated and kept in circulation.

SEND FOR CATALOGUE.

Wm. Resor & Co.

CINCINNATI, OHIO.

Royal Heaters.

MANUFACTURED BY THE

HART & CROUSE CO.

UTICA, N.Y.

ALL THE LEADING LINES OF

STEAM, HOT WATER & HOT AIR,

FOR HEATING ALL CLASSES OF BUILDING.

BRANCHES. 235 WATER ST. N.Y. COLUMBUS, O. 79 LAKE ST. CHICAGO. ST. LOUIS.

JOHN F. HOGUE & CO.,

URBANA, O.

WRITE--

"Please discontinue our ad. for a Tinner. We have secured one and are much obliged to you for the advertisement."

Locations for Industries.

Manufacturing is rapidly developing along the lines of the Chicago, Milwaukee & St. Paul Railway. Industries on a large scale now extend to the Mississippi River with indications of reaching the Missouri. Machinery and all the higher classes of manufactured goods are now being exported from this business territory to all parts of the world.

The Chicago, Milwaukee & St. Paul Railway Company's 6,600 miles of railway, exclusive of second track, connecting track or sidings, traverses eight states, namely:

NORTH DAKOTA	MINNESOTA	NORTHERN MICHIGAN
SOUTH DAKOTA	IOWA	WISCONSIN
Express Passenger Trains, Fast Freight Trains Throughout.	MISSOURI	ILLINOIS

which comprise a territory full of natural resources and advantages. This railway is geographically well located in relation to the great markets and distributing centers. Beyond its lines is a vast and rapidly developing territory extending to the Pacific Coast.

The Company gives unremitting attention to the development of local traffic along its lines and, with this in view, seeks to increase the number of manufacturing plants on its system, either through their creation by local enterprise or the influx of manufacturers from the east. It has all its territory districted in relation to resources, adaptability and advantages for manufacturing. Specific information furnished manufacturers in regard to suitable locations. Address,

LUIS JACKSON,

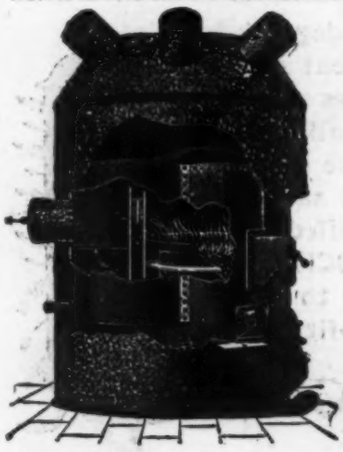
Industrial Commissioner C., M. & St. P. R'y. 660 Old Colony Bldg., Chicago, Ill.

CATALOGUE SHOWING

Gas Ranges · Cast Cooks
Steel Ranges · Cast and
Cast Ranges · Steel Heaters
Steel Cooks · Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.



Weir Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING **Furnace.**

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

Manufactured by

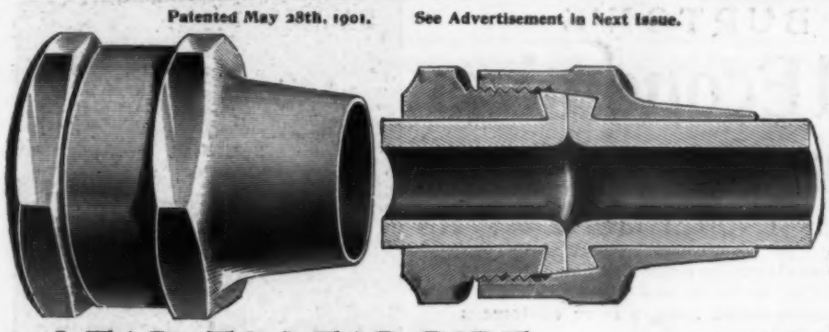
Meyer Furnace Co.

Send for Catalogue. **PEORIA, ILL.**

Is Absolu e y Safe.

Handy Pipe.

Patented May 28th, 1901. See Advertisement in Next Issue.



Novelty Couplings

Lead to Lead and Lead to Iron or Copper.

LEAD TO LEAD PIPE. A Perfect Substitute for Wiped Joints.

Water Back Faucet, Boiler Couplings, Etc.

SEND FOR COMPLETE CATALOGUE

The New Haven Novelty Machine Co., New Haven, Conn., U.S.A.

If

You want practical up-to-date ideas about steam heating, furnace heating and hot water heating, **You should get the House Warming Manual.**

If

You want the practical experience of many experts rather than the heating theories of one man, **You should get the House Warming Manual.**

If

You desire estimates and plans of heating work that will save you many dollars in your work, **You should get the House Warming Manual.**

Price, $3.50. For sale by all booksellers, or by

DANIEL STERN, 69 Dearborn St., Chicago.

Jos. W. Young,

Alta, Iowa, writes:

"For goodness sake take my ad. out of your paper! I can't answer half the letters. Have a good job. Many thanks. I wish you great success."

Sell Themselves.

There's no trouble or great salesmanship required to sell

New Era Radiators

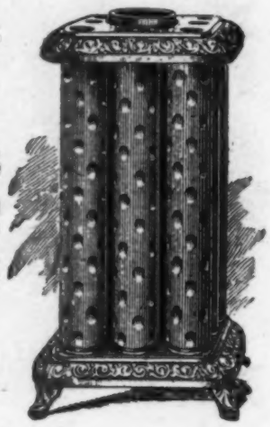
They sell themselves. Every house owner will want one on sight. And then every one who sees it in use will want one too.

Every one sold will be an advertisement of your store—an ad. that will bring money instead of costing money.

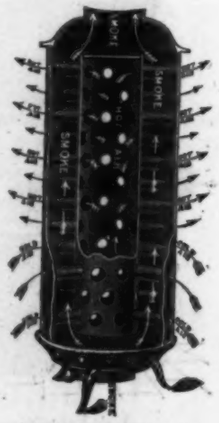
Send for prices.

Wilmot Castle & Co.,

77 Elm St., Rochester, N. Y.



A fire in a red glow represents 1,200 degrees of heat, a draft through this carries the heat out the chimney unless intercepted by a cross tube ROCHESTER RADIATOR, when nearly all this waste heat is conveyed into the room by the rapid circulation of air through the tubes and saved. This appeals to common sense and is verified by the most thorough scientific test. The ROCHESTER RADIATOR is a satisfactory article to sell and one that affords the dealer a good profit.



ROCHESTER RADIATOR CO.,

120 Furnace Street, ROCHESTER, N. Y.

BURTON'S

Fuel Economizer

Advertised Judiciously

In Over 1,000 Publications

Is the most attractive proposition ever offered to dealers in stoves and hardware.

Our advertisements always refer customers to the dealer.

Write the manufacturers without delay.

W. J. Burton & Co.

164-166 West Larned St., - - DETROIT, MICH.

The American Artisan Manuals.

House Warming Manual,
Furnace Work Manual,
Cornice Work Manual,
Workshop Manual,
Hot Water Manual,
Manual of Receipts.

Each an authority in its own particular field.

PRICE, $3.50 PER COPY. ADDRESS,

Daniel Stern, - - - 69 Dearborn St., Chicago.

Registers and Ventilators.

A Full Line, Unique Designs

Quality and finish unexcelled. All styles of finish, from Japanned to Gold Plated.

Send for Catalogue.

The Philadelphia Hardware and Malleable Iron Works

Philadelphia, Pa.

'Having now received applications from several parties from all over the United States we now ask you to withdraw our advertisement in the column 'Help Wanted.' This surely is the only way to get a good man." . . . . . **H. KOCH & SON, New Baden, Ill.**

JEWEL STOVES AND RANGES..

JEWEL STOVES AND RANGES
DETROIT STOVE WORKS
LARGEST STOVE PLANT IN THE WORLD

A Complete, Well Advertised Line;
Low Prices and Good Workmanship.

Please Write for Catalogue.

DETROIT STOVE WORKS.

Detroit - Chicago.

Showing Double on Second Floor.

The Auer Side Wall Register

TAKES LESS PIPE, WALL STACKS and FITTINGS.

Includes Register Box, hence is cheaper than common registers.
No Mutilation of Carpets.
No Discoloration of ceilings.
Affords Perfect Ventilation.
Made in Nine Sizes.
Send for Circulars.

Auer Register Co.,

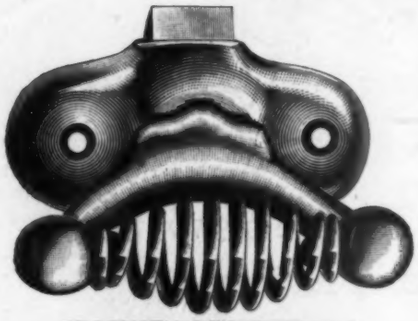
TOLEDO, O.

WIRETON HEATING CO., Chicago, Agents for Illinois.
PHILLIP GROSS HARDWARE CO., Milwaukee, Agents for Wisconsin.

For First or Second Floor.

No. 198.

Range Gravity Handle.



MANUFACTURED BY

The Fanner Mfg. Co.,

CLEVELAND, O.

Established 1874.
The largest and most reliable **Foundry Supply House** in the world.

THE
S. Obermayer Co.,
CINCINNATI, OHIO.
CHICAGO, ILL.
manufacturers
"Everything You Need in Your Foundry."
Importers and refiners
PLUMBAGO GRAPHITE.
Catalog Sent on Application.

C. Blomberg
Chicago
Writes:
"Kindly take out my advertisement of situation wanted. Have received more letters than I can answer. Thanking you very kindly for the service."

ROUND OAK—STANDARD of AMERICA

CURTIS GANDY CHI. 1900

It takes very little work to sell a furnace of quality to the man who is throwing out a cheap furnace.

It would not have taken much more effort to have sold him the good one on the start. Trouble is—PRICE cuts entirely too much figure in the usual selling argument. It should be QUALITY.

Estate of P. D. Beckwith, Dowagiac, Mich.

MAKERS OF GOOD GOODS ONLY.

40

ESTABLISHED 1880

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

Terms of Subscription in the United States, their Possessions, and Canada, (invariably in advance): One Year, Postage Paid, $2.00.
In Foreign Countries, Except Canada, One Year, Postage Paid, $4.00.

Address all Letters, communications and remittances to

DANIEL STERN, President American Artisan Press,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.

This Paper is a Member of the Chicago Trade Press Association.

CHICAGO, OCT. 5 1901.

THE quarantine restrictions placed last year on the export cattle and beef trade of the Argentine Republic on account of the foot and mouth disease in that country, has resulted in a wonderful augmentation of American cattle and beef exports. In 1899 exports of live cattle from this country were 389,490 head, against 312,150 head from the Argentine Republic, and in 1901 our exports were 459,218 head, the exports from the Argentine Republic having ceased.

THE practical experiences of the United States with reciprocity are told by some figures and statements just complied by the Treasury Bureau of Statistics. There have been three distinct tests of reciprocity in the trade relations of the United States: (1) The reciprocity treaty with Canada, existing from 1854 to 1866. (2) The reciprocity treaty with the Hawaiian government, existing from 1876 to the date of annexation, 1898. (3) The series of treaties framed under the McKinley tariff act of 1890, beginning with the treaty with Brazil, April 1, 1891; Dominican Republic, Aug. 1, 1891; Spain, for Cuba and Porto Rico, Sept. 1, 1891; Germany, Feb. 1, 1892; United Kingdom, for the British West Indies and British Guiana, Feb. 1, 1892; Nicaragua, April 15, 1892; Austria-Hungary, May 25, 1892; Honduras, May 25, 1892, and Guatemala, May 30, 1892.

THE report of the first half year's operation of the United States Steel Corporation, made public Oct. 2, is an evidence of sound and prosperous business conditions in our country. The decision of the managers of the great concern to take the public into their confidence regarding the company's affairs was worthy of all praise. The Steel Corporation shows that in this first six months of its career, it has, after setting aside over $7,000,000 for sinking fund and maintenance, and paying all dividends and interest charges, over $12,000,000 remaining as surplus. No such statement was ever made before in the world's history by an industrial company. The company makes a statement of its net earnings for each month of the half year; and it is doubtful, perhaps, if the full effect of the recent strike appears in these current earnings. Making all allowances, however, the statement is a marvellous one. It must be apparent that this action on the part of the steel company constitutes a model that other like corporations must think more and more seriously of imitating.

THE record of the foreign commerce of the United States during the eight months ending with August, 1901, shows an increase in imports of $14,000,000, and an increase in exports of $23,000,000, comparing the eight months of the calendar year 1901 with the corresponding eight months of 1900. The increase in imports is chiefly in coffee and diamonds. Coffee increased from $37,245,286 in the eight months of 1900 to $45,151,041 in the eight months of 1901, an increase of $7,905,755. Diamonds and other precious stones increased from $8,597,200 in the first eight months of 1900 to $17,198,670 in the same months of 1900, an increase of $8,601,470. Thus the total increase in imports is found in the two articles, coffee and diamonds. In manufacturers' materials and manufactures ready for consumption the figures of 1901 are strikingly similar to those of 1900. Articles in a crude condition for use in manufacturing were, in the eight months of 1901, $198,702,596, against $198,961,392 in the same months of 1900; articles wholly or partially manufactured, for use in manufacturing, were, in the eight months of 1901, $54,795,758, against $55,994,569 in the same months of 1900; and manufactures ready for consumption were, in the eight months of 1901, $89,850,126, as against $89,815,604 in the corresponding months of last year.

MANY merchants seem to think that a request for a statement of their financial condition when they have placed an order and are expecting it filled on credit, though they may not say so at the time, is a deadly insult and a slur on their responsibility and business integrity. Perhaps it is from their standpoint, knowing of their own good condition; but how is the creditor to know that until he has been informed, and generally the only reason why he is not is because the debtor has already refused to tell the agencies or any one else anything about himself, thereby leaving open only one course to the creditor, that of asking for the information necessary to the extension of credit. It is not nearly such a blot on a man's reputation to receive a request for such details as it is to get turned down, and frequently he would be if he did not put a little confidence in the creditor for the sake of the large amount of confidence he expects the creditor to place in him in return therefor. If the debtor cannot trust the creditor, with a little information, how can he expect the creditor to trust him with his dollars, his capital and his whole success which depends upon the safe investment of his money in the form of merchandise. As a rule the people refusing statements are the ones not deserving of credit, but they never will be if they don't try to establish it by honest dealings, if not

by financial responsibility, which in time will increase with honest efforts and endeavor.

Machinery and Man.

A. E. Outerbridge Jr., a leading English mechanical expert, in a recent address in that country, gave utterance to some very important opinions on the all-absorbing topic of machinery and man.

Mr. Outerbridge took issue with those economists who hold that the extensive substitution of automatic machinery for hand labor, now evident in all trades, is of necessity more or less detrimental to the intellectual development of the wage earner, since the work which he is called upon to perform is reduced to the simplest routine operations involved in feeding a machine with raw material; that the monotony of his task is very depressing, and that the modern system of minute sub-division of labor develops a hopeless feeling in the mind of the operative, because he knows that there is little or no opportunity for him to become a skilled master of any trade through his daily work; that in the old days of the "apprenticeship system," when boys were indentured to masters and taught the principles and practice of a trade, there was more incentive to ambition, and, consequently, a quicker intellectual growth of the young mind, and a keener desire on the part of the youth to become a thorough workman.

Mr. Outerbridge takes flat issue with this view, holding that the elimination of exhausting manual labor by the substitution of powerful machinery for puny arms has emancipated labor in our day from its hardest tasks, and has given to the worker both inclination and leisure for the development of his intellect in various ways that were impossible formerly.

To sustain his position he quotes as follows:

"It is not true, in point of fact, that the operator of a modern labor-saving machine is restricted to the mere feeding of the machine with raw material; he is encouraged and expected to do very much more than this in order to obtain the very best results. As an illustration, I may mention a case in point, where two men work side by side, tending duplicate machines. One man earns nearly twice the wages of the other, for the simple reason that he produces in ten hours nearly twice the quantity of finished material, made to standard measurements, the permissible limits of variations being probably but a few thousandths of an inch. The difference in efficiency is in the men, not in the machines.

"It is not merely the ability to turn out a maximum amount of work from a modern machine that constitutes a skilled operative. No matter how nearly automatic the machine may be, it is subject to human guidance, and no matter how nearly perfect its construction, its work is still subject to final correction and control by the hand of the operator. I am satisfied that in all trades where automatic machinery has been extensively introduced for the purpose, it may be, of supplanting hand labor, the ultimate result has proved beneficial to the workers in raising the general average of intelligence and, furthermore, that it has increased the opportunities for labor."

The Development of Commercial Character.

We talk glibly of character-building as though all a young man had to do in order to succeed was to follow prescribed lines of ethics. This is true in a general way. Honesty, veracity, punctuality and industry are sure to be recognized, and the man who does not possess these qualities is sooner or later destined to land in the quagmires of commercial contempt. If a man has these qualities he will be respected, it is true, and editors will not feel any qualms about writing him a good stiff obituary. But he needs more qualities than these to succeed. Predominant among these is system. The New England farmer who, when he struck a stone in ploughing, picked it up and put it behind him in the furrow, struck the same stone next year. He wondered, of course, why he didn't make more money since he was so industrious, but it was because he didn't take the trouble to take each stone out of the lot as he ploughed it up. Specialization, with its minute systematization, is the keystone of the modern commercial structure, and method is essential to success.

Courtesy is another feature that is all important. Habitual courtesy works wonders for its possessor, and, in fact, has often landed a man in a much better position than his natural talents would give him any right to aspire unto.

Another requisite is the habit of initiation. The little brook that twisted across the Connecticut meadow of your youth is there today, but the current of business life is constantly seeking new channels for itself, and the man, whatever his other talents, who lacks the power to adapt himself to changed circumstances, cannot long stay in the running. Older heads in the business world should realize that they are making a mistake in not heeding the remorseless passing of the days, and bearing in mind that their desk will soon be vacant and will be filled by the immediately succeeding or the very youngest generations. Much injury has been and will be done by men of commercial acumen, but thoughtful of themselves or their individual circumstances only, and apparently unconscious of the younger men who are almost treading upon their feet and waiting simply for a word of advice or encouragement to develop profound business tact and character. Instances are very numerous where successful business and even professional men have no offspring worthy to take their places when the time of retirement or separation comes; and this condition has been undoubtedly brought about in many instances by a failure on the part of the senior to consider the young men a part and parcel of his responsibility and create that atmosphere in his business surroundings or set aside a little time for substantial advice and encouragement, which would have caused a flowering of the natural abilities that were simply withered.

We have been passing through a crisis of change in commercial life and plans during the past few years, and "specializing" in every department appears to be the fundamental element of success. Not more than a decade ago it was not considered at all necessary for a young man to have beyond a common school education if he intended to take up a commercial life; but

now it is very necessary that a young man should have gone through a period of close study so that the habits of application and attention may have been developed and a range of knowledge concentrated on the branch of business that he may have selected. The young business man should continue his studies after entering upon the commercial life, and realize that he is facing strong conditions which must be met and overcome. The power of realizing a commercial character and success beyond the monetary feature, in any branch of business, depends more largely on these features of study and application, with a serious comprehension of what we are aiming to become, than even the genius with which nature may have endowed us. When a young man, upon entering business, manifests these attractive qualities, he should be given the atmosphere in which they can alone be developed and used for the advantage of his seniors. It is hard to make men over, and we love to dwell on the ideal; but there is really nothing which should hurt us more than to see a fine effort wasted and contracted because there is no appreciative spirit; and it was simply looked upon as one of the daily cogs of the business to grind and grind, and at last wear out. Surely every firm in filling subordinate positions should recognize the responsibilities surrounding them, and that it means just as much to develop a life as that the right side of the profit and loss account should be substantially increased by a proficient assistant. The trouble many boys give and the numerous changes necessary are frequently very discouraging, and it looks as though the proper stuff is hard to get; but nevertheless very many of these boys have a good foundation away underneath the surface, and if they are given some advice and caused to realize just what the business life means will sober and make splendid men.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

FREDERICK FRALEY, whose death, in Philadelphia, in his ninety-eighth year, was announced in last week's issue of this paper, was one of the last survivors of the Philadelphia citizens of the early days of the nineteenth century, when the foundation of the subsequent commercial greatness of that city was laid. Mr. Fraley's longevity affords conclusive proof that the hardware business does not necessarily undermine a man's constitution. Mr. Fraley's habits of life, as narrated in an article in the Public Ledger, of Philadelphia, which a kind friend in that city sends me, is an interesting study. The account of his diet is as follows:

"He ate fruit at his breakfast all the year round; pears, apples, oranges and other fruits in their season. Then followed a bit of beefsteak, a chop or fish, kidneys or bacon and scrambled eggs; but never more than one of these dishes at a meal. He laughingly told how he submitted to oatmeal discipline for some years because of its supposed relaxing qualities, but he long since discarded it. He was very fond of milk toast. Coffee twice a day, and strong coffee, was his beverage nearly all his life. A little claret or Rhine wine at dinner was a frequent, although not a daily, drink in summer time; a glass of sherry with his soup in winter. He partook very sparingly of vegetables, although he was quite fond of purees, vegetable soup, especially a certain bisque of tomato, in which his cook excelled. Fried things? Oh, yes, he could digest a chicken croquette or a clam fritter, equally without uneasiness; also salads—even of lobster. A hot muffin this almost perfect digestion (up to ninety-five) disposed of as easily as an 'Educator' cracker. By his physician's orders he took a very light repast before retiring, at half-past 10 o'clock. One finger or one and a half of old rye in a half-glass of ice water or apollinaris, with a biscuit or a bit of sweet cake. Occasionally he nibbled, in lieu of the latter, at one of those Wiesbaden prunes, stuffed with a prune, where the pit is removed. Only one, for he was abstemious in sweets. In winter the American whisky was changed for Scotch or Irish, taken hot or cold, as he fancied."

Surely this regimen is at wide variance with that prescribed by the whole range of food faddists, etc. Perhaps it was not his diet which will be condemned by all anti-coffee, anti-liquor, anti-meat, anti-muffin and other reformers so much as his uniform cheerfulness that resulted in his long life beyond the allotted three-score and ten.

* * *

"DID you ever note the whimsical coindicence of the New York and Chicago addresses of half a dozen leading stove and furnace houses, such as Boynton Furnace Co., Eugene Munsell & Co.?" asked a Lake street friend of mine the other day. "These firms have their Chicago house located on 'Lake street,' their New York house on 'Water street,' and if they started up a new branch in some other city I believe they would locate it on 'River' street."

* * *

A WRITER in the London Spectator advances the theory that mice may cause baldness. He says: "A barber had been giving the writer much information about the hair, and then remarked that not long since quite a young man had come into his shop who had lost all his hair. It had come off very suddenly, and for no apparent reason. The barber said: 'You have a cat?' 'No,' he replied, 'we have not a cat in the house.' 'Then you have a terrier that catches mice, and it comes in contact with your head?' 'Yes,' said the man, 'I have; and its favorite seat is on the top of my armchair, close to my head.' The old barber then explained that his sudden baldness was a disease belonging to mice, that could be passed on to human beings by contact with an animal that touched them."

* * *

THE recent resignation of Pres. Hays, of the Southern Railway Co., from a job he has held but a few months, brings up the question as to the desirability of an experienced and forceful man's assuming the administration of a corporation's affairs when he has not the power to shape its policies. The only logical course in such matters is the election of a president whose ownership or control of the company's shares (or both) makes him the dominating influence in all its deliberations and operations. The ideal management of a large property is that which is embraced in the phrase "owned by its conductors and conducted by its owners."

News Siftings.

The Connellsville (Pa.) Plumbing & Heating Co. is a new concern.

George Taylor, John T. Edwards and L. L. Stephens are the incorporators of the Southern Iron Manufacturing Co., Pierre, S. D., capitalized at $1,000,000.

At a recent meeting of the stockholders of the Lexington Stove Works, Lexington, Ky., J. E. Stiffe, of Hamilton, Ohio, was elected general manager, secretary and treasurer of the company.

The Portsmouth Stove and Range Co., Portsmouth, O., are having a heavy run on their Climax box stoves. These are heavy, full size stoves, made this year from patterns which the manufacturers tell us with refreshing candor are of the vintage of 1860.

The Peirce School, Philadelphia, which is one of the best known business schools in the country, has inaugurated a course in advertising. It is the intention to make this school not only a bureau of information and suggestion, but a clearing-house of profitable advertising and business ideas.

Elliott P. Gleason, president of the Lawler Water Feed & Damper Regulator Co., 181 Mercer street, New York, died on Sept. 27, at his residence, 152 Colyer street, Brooklyn. Mr. Gleason was in his eighty-first year, and was identified with a large number of the leading commercial enterprises of New York City. He leaves two sisters and a brother.

Everybody who knows J. Edward Holland, manager of the Holland Radiator Co., 38 Dearborn St., Chicago, knows that he is the soul of hospitality. Mr. Holland is now poignantly regretting that he was not at home on the night of Oct. 2, when a party of gentlemen made a call at his flat, 406 Erie street, and as souvenirs of the occasion carried away $3,000 worth of jewelry, clothing and silverware.

Alfred L. Castle, who has served with distinction in the Philippine Islands the past two years as lieutenant in the 45th regiment, and before this in the Cuban campaign, is now on the road visiting the western trade in the interest of the Comstock-Castle Stove Co, Quincy, Ill. Mr. Castle is one of the most popular of the younger stove men. He has that personal magnetism that always makes friends for its lucky possessor, and is one of the best posted stove men of his age in the country.

W. J. Burton & Co., Detroit, Mich., the quick shippers, send us a little circular giving 9 reasons why it pays the trade to sell Burton's fuel economizer. These reasons are as follows: (1) This firm help its sale by permanent, extensive advertising. (2) Their advertisements refer inquirers to dealers. (3) They quote consumers a higher price than the consumer has to pay local dealers. (4) Testimonials prove its benefit. (5) It sells quickly on examination. (6) Its best advertisements are economizers in use. (7) Dealers do not have to set it up. (8) It affords a good profit. (9) It is shipped by fast freight.

We have received a little pamphlet entitled "A Treatise on a Warm Subject," the cover of which shows a red and black scene in the place where Czolgosz will be a year from now unless he gets good. We opened this booklet with keen interest, not because we had any personal interest in the matter but because we were curious to know what information the Gem City Stove Manufacturing Co., Quincy, Ill., who got out this booklet, might have on this subject concerning which there is a world of conjecture and but scant authoritative data. We found that the cover picture was misleading as the contents were devoted to a number of strong testimonials to the merits of the German heaters.

The Thomas White Stove Co., Quincy, Ill., had only a passing interest in the recent protracted struggle between the Amalgamated Association of Iron, Steel and Tin Plate Workers, and the United States Steel Corporation. Of course, in common with the rest of us, they were interested in having this strike settled on account of its influence on general business conditions, but they did not have that vivid, excited interest in the matter some of their brother stove makers had, who were very shy on steel, as they had laid in a large stock of steel prior to the misunderstanding between Shaffer and Schwab. Their large supply of raw material enabled them to anticipate the wants of the trade, consequently they have a large stock of steel ranges and steel cooks on hand, and are able to make prompt shipments.

A steel range with some decidedly interesting features is found in the Prize Monogram, manufactured by the Quincy Stove Mfg. Co., Quincy, Ill. Their decidedly special selling features, viz., polished steel body, pouch feed for coal, end swing door for wood, duplex grate that can be easily removed, front poke door with screw dampers; cast back flue, spring balanced oven door, sheet iron shield below steel bottom to equalize heat in the oven, full cast reservoir, with cast shield across back to prevent rust, heavy base skirting, asbestos millboard lining, handsome design, full nickel trimming, with nickeled steel band on high shelf and high closet. The reservoir ranges can be easily changed to square ranges. Water backs can be had for all sizes. A circular describing these new steel ranges will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Geo. B. Donavin Co., Columbus, Ohio, send us a little booklet describing their double-action gas heaters. In these gas heaters the travel of gas and heat, after leaving the burner, is to the top of the stove against the asbestos fire plate, thence through the flue compartments around the air pipes to the outlet at the bottom of the back of the stove. The air pipes extend through the stove from bottom to top, drawing the cold air from the floor, passing through the pipes, which are intensely heated, and discharging a volume of hot air through the open top register. All joints and parts of the double-action heater are cemented, and the stove is drawn together by four rods, from top to bottom, making the heater absolutely gas tight, it is claimed. A descriptive circular will be forwarded the trade on application. When writing for same kindly adds "Saw it in THE AMERICAN ARTISAN."

The Cleveland Co-operative Stove Co., Cleveland, O., send us a little booklet calling attention to their heating stoves. The Special Air Tight is made of smooth steel. It has steel linings, front door removable to clean out ashes, hinged cover, spark arrester on front damper, all legs fastening in loops under stove and tops braced to prevent warping. The Hot Stuff sheet top air tight wood heater is made of polished steel, mirror finish. It has extra heavy removable steel linings, hinged cover, special leg fasteners, plate in cover, front draft, with cap removable to admit large fire shovel, deflected top and steel linings in four sections, allowing free expansion. Their Royal Jr. Oak has large feed door, heavy polished steel body, screw draft dampers, draw center grate and large ash pit. The Circle Blast has body made of No. 18 gauge heavy boiler iron, polished nickel finish. It is seated in the cast bottom with asbestos and securely held in place by cast iron cleats and bolts. One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

J. M. Litchfield, 105 Beekman street and 284-286 Pearl street, New York, send us a little booklet describing the "Game" lamp and gas stoves. The "Game" Junior No. 1 has tank and other castings finished in black japan with removable nickel plated mica frames, bright tin chimneys, brass trimmings and many other superior points. The wick tubes are easily removed and new ones inserted when necessary.

The Summer Girl lamp stove is a medium priced lamp stove, handsomely finished in black japan, brass trimmings, bright tin chimneys, removable nickel plated mica frames, etc. It has patented 4-inch cast burners, which can be easily removed and new ones inserted when necessary.

The Game Lamp stove has a large tank finished in black japan, handsomely ornamented. It has nickel plated cones, top grates and mica frames, also removable brass burners. An open extension top is made for each of the four sizes, while a closed extension top can be furnished for the two, three and four burner sizes. A patented drop shelf can be used with all sizes of closed extension tops.

One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Economy Stove & Mfg. Co., Detroit, Mich., send us an illustrated catalogue, showing their Economy gas heating stoves for 1901-1902. In the Economy gas heater all parts of the stove which are in any way exposed to the fire are made of cast iron. The radiating drums on the Nos. 30, 40 and 50 are made of the best grade of American planished iron. The burners in the Economy are all made of cast iron, with an adjustable air mixer, and so arranged that they can be taken out through the bottom of base for cleaning without disturbing the filling or basket grate. All perforations or jet holes in the burner are drilled. The entire front and ends of the combustion chamber are fitted with large sections of mica, set in handsomely designed mountings. The Economy is fitted with a removable basket grate filled with patent incandescent fuel, which, when lighted, has the appearance of a hard coal fire. The products of combustion are carried up between the outer and inner drums and then to the flue connection, at the back of the stove. The cold air is drawn from the floor into the stove at the back and, after passing over the combustion chamber, it is carried into the inner heating drum. It then passes through the top section of the stove and is deflected forward by the hood, intensely hot. One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

ANDES STOVES AND RANGES.

The Phillips & Clark Stove Co., Geneva, N. Y., send us their 1901 catalogue of Andes stoves and ranges. This is a very handsome volume with a tasty red embossed cover and an unusually superior quality of press work and illustrations. The place of honor in this volume is accorded the Peerless Andes cast range. The entire back of the oven in this range is encased by flue. The castings are heavy, rich and massive, and the trimmings are chaste and appropriate. This range has large, roomy, six-hole tops, large ovens, not bagged in back, perfectly ventilated ovens, perfect form of fire box, new style draw-out wood grate, duplex and dock-ash grates, double oven door, cemented top oven plate, double and cemented bottom, very large ash pan, large drop broiling door, large fire door for wood, oven heated on five sides, oven door indicator, plated panels on oven door and end door, plated towel rod, plated trade mark on high shelf, plated tea shelves, plated hearth extension and grate yoke.

The Monarch Andes is a modern all cast iron French style range. The oven plates are also all cast iron. It is made in 24 styles and sizes, with large square high ovens, thoroughly ventilated. It has new improved concealed balancing springs, new and novel oven door latch, loose cover plates in tops, well proportioned, quick acting flues, self-adjusting tea pot stands, large hinged flue clean-out, large, spacious, roomy top, large, capacious reservoir, large broiling door on end, lift-up cover plate over fire box for broiling, high shelf easily changed to high closet, balanced revolving high closet door, large sheet steel ash pan, effective ash guards, front and end dampers and large swing feed door.

This firm's line of heating stoves includes the Art Andes, Revere Andes, Century Andes, Crown Andes, Mystic Andes, Magic Andes in two series, Round Andes, Oak Andes in three styles, Cottage Andes and Rural Andes. The Art Andes is made in two distinct styles. The air which enters the stove at the bottom is discharged at the top at a high temperature in constant and free circulation. It has duplex or draw-center grates, solid or sectional fire pots. The plated trimmings are constructed so as to allow a free circulation of air around them. These parts are attached to the stove without the use of bolts and are easily removed.

The Oak Andes, as improved for 1901, has oven in top, double heating hot air flue, revertible flue, square

bottom, plated base, plain base, legs, mica door, large ash pan, twin-screw damper in ash door operated by one threaded key, four bar prismatic grate for coal, register wood grate, all grates interchangeable, perforated wood plate to drop over coal grate when burning wood temporarily, unusually heavy fire pot, extra heavy steel body, inside guard ring over fire pot and fire pot encased in extremely handsome plated fret work.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

DEATH OF WASHINGTON M. SHADDINGER.

The trade will learn with deep regret of the death of Washington Shaddinger, which took place in Chicago, Sept. 20 last. Mr. Shaddinger was born in Cincinnati, O., on November 4, 1851. His father was Joseph Shaddinger, who was a boiler and machine shop owner in that city, and was a large stockholder in the Cincinnati Inquirer with Washington McLean, who was the father of John R. McLean, who was a recent aspirant to the presidency of the United States, and from whose father Mr. Shaddinger derived his name, Washington McLean Shaddinger. Mr. Shaddinger first entered the stove business with Nicholas Patterson, of Cincinnati, who had a foundry at California, O. From there he went to the Favorite Stove & Range Co., of Cincinnati, then to the Fuller, Warren & Co. branch house, Chicago, as assistant manager. He next became manager of the Chicago branch of the Detroit Stove Works, and was soon promoted to the secretaryship of this concern.

Mr. Shaddinger's manners were genial, and his unfailing courtesy, uncommon tact and knowledge of the stove business made him a host of friends in the stove trade, who will deeply regret his taking off in the very prime of life. Mr. Shaddinger's health had been bad for some years prior to his death. The body was taken to Cincinnati for interment.

MONITOR STOVES AND RANGES.

The day is evidently not far distant when every stove firm will have a stove poet as as attache, judging from the variety of stove firms who have of late found their goods to awaken the poetic fire. The latest poem we have received is one written by a thirteen-year-old lady who swears by the Monitor made by Wm. Resor & Co., Cincinnati, O. As this poetess' last initial corresponds with that of the energetic secretary of this concern we will hazard a guess that the author of this little poem is Mr. Todd's bright and winsome daughter.

THE MONITOR.

BY H. M. T.

Hurrah for the Monitor,
The range that's well made,
The people that buy it
Are more than repaid.

Hurrah for the Monitor,
'Tis cheapest and best,
It's made of good steel
And will well stand the test.

Hurrah for the Monitor,
The best range you will find,
When compared with others
It leaves them behind.

Hurrah for the Monitor,
The up-to-date range,
Because it's better than others
It really isn't strange.

Hurrah for the Monitor,
The range of low price,
In every detail
It is always precise.

Hurrah for the Monitor,
The best range of all,
If you don't believe it
Just make them a call.

MEETING UNITED STATES STEEL CORPORATION.

The quarterly meeting of the United States Steel corporation was held Oct. 1, and the following statement of income and disbursements was made:

	Net Earnings from Operation.	
April	$7,356,744	
May	9,612,349	
June	9,394,747	
July	9,580,151	
August	9,810,880	
September (estimated)	9,200,000	
Total		$54,954,871
Less total of amounts set aside for sinking funds and maintenance		7,059,705
Balance		$47,895,166
Six months' interest on bonds		7,600,000
Balance		$40,295,166
First quarterly dividend on stock declared July 2:		
Preferred, 1¾ per cent	$8,895,913	
Common, 1 per cent	5,061,115	
Total		$13,957,028
Balance		$26,338,138
Second quarterly dividend on stock, declared Oct. 1:		
Preferred, 1¾ per cent	$8,929,049	
Common, 1 per cent	5,082,347	
Total		$14,011,396
Balance applicable to surplus or new construction as the board of directors may decide at end of year		$12,326,742

HALVES.

"This potato is only half done, my dear," said he crossly.

"Then only eat half of it, my love," she replied affectionately.—London Tit-Bits.

The Hardware Record.

Arkansas Retail Hardware Dealers' Association.

Pres., John M. Pitman, Prescott.
1st Vice-Pres., J. F. Maxey, Ozark.
2d Vice-Pres., T. B. Stewart, Newport.
Secy-Treas., J. A. Plummer, Marianna.
Executive Com.: H. Williams, Hot Springs. J. H. Bolcourt, Little Rock, J. W. Lee, Fordyce.

Chicago Retail Hardware Dealers' Association.

Pres., D. McLaughlin.
Vice-Pres., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Association of Philadelphia.

Pres., Hugh McCaffrey.
Vice-Pres., Wm. C. Peters.
Sec.-Treas., T. James Fernley.
Directors, William W. Supplee, Samuel Disston, John H. Griffith, James H. Ritter, William C. Peters, Thomas Devlin, Fayette R. Plumb, Hugh McCaffrey and T. James Fernley.

Illinois Retail Hardware Dealers' Association.

Pres., H. G. Cormick, Centralia.
Vice-Pres., Wm. Bittel, Peoria.
Sec., G. R. Lott, Chicago.
Treas., F. F. Porter, Chicago.
Ex. Com., Z T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; C. Williams, Streator; L. Babst, Kankakee.

Indiana Retail Hardware Dealers' Association.

Pres., W. P. Lewis, New Albany.
Vice-Pres., Jas. L. Hutton, Portland.
Sec. and Treas., M. L. Corey, Argos.
Members Ex. Com., I. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

Indian Territory Retail Hardware Association.

Pres., Geo W. Mowbray, Tulsa
1st Vice-Pres., J. G. Smith, Canadian
2d Vice-Pres., Fred Parkinson, Wagoner.
Sec., Dick Miller, Poteau.
Treas., Sam R. Frazee, Vinita.

Iowa Retail Hardware Dealers' Association.

Pres., W. A. McIntire, Ottumwa.
Vice-Pres., E. G. Penrose, Tama.
Ex. Com., A. C. Heyman, Miles; L. Lindenberg, Dubuque; F. S. Narum, Waukon; E. G. Penrose, Tama; W. A. McIntire, Ottumwa; L. H. Kurtz, Des Moines; H. A. Cole, Council Bluffs; Harry Vincent, Ft. Dodge, W. H. Miller, Cherokee; M. W. Keating, Afton; Jacob Seither, Keokuk.

Kansas Hardware Dealers' Ass'n.

Pres., Geo. F. Andersen, St. Marys.
Vice-Pres., Oscar Rohhr, Topeka.
Sec., J. A. Cole, Topeka.
Ex. Com., James H. Hamilton, Arkansas City; E. I. King, Logan; T. H. Kiniry, Beloit; J. M. Walters; Robinson; F. W. Bartlett, Kansas City.

Kentucky Retail Hardware and Stove Dealers' Association.

Pres., Geo. Dehler, Louisville.
1st V.-P., J. S. Ogden, Ashland.
2nd V.-P., Chas. D. Winn, Paris.
Sec., Paul Wagner, Louisville.
Asst. Sec., Wm. Dehler, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.

Pres. H. C. Minnie Eaton Rapids.
Vice-Pres., Geo. W. Bruske, Saginaw.
Sec., Fred H. Cozzens, Detroit.
Treas., Henry C. Weber, Detroit.
Ex. Com., Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Ostego A. Harshaw, Delray; A. J. Scott, Marion City; James J. Potter, Alpena; Jno. W. Jochin, Ishpeming; Robt. G. Chandler, Coldwater; John Popp, Saginaw, F. S. Carlton, Calumet.

Minnesota Retail Hardware Association.

Pres., W. H. Tomlinson, LeSueur.
Vice-Pres., H. S. Cleveland, Minneapolis.
Sec., T. McCracken, Minneapolis.
Treas., G. M. Evanson, St. Peter.
Ex. Com., F. H Hunt, Red Lake Falls; B. J. Kernkamp, St. Paul; Julius Schmidt, Wabasha; W. H. Tomlinson, LeSueur; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; Chas. F. Ladner, St. Cloud; S. R. Nelson, Owatonna; E. H. Loyhed, Faribault.

Missouri Retail Stove and Hardware Dealers' Association.

Pres., B. F. Naylor, Marshall.
V.-P., Geo. R. Plowman, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., R. L. Hixon, Hannibal; F. A. Kaunsteiner, St. Louis; J. W. Poland, Carrollton; W. A. Wingert, Kansas City.
Advisory Board, P. E. Harney Joplin; E. Stuelzing, Kansas City; J. M Kenyon, Maitland; W. T. Shoop, Richmond; G. A. Pauly, St. Louis.

National Hardware Association.

Pres., R. W. Shapleigh, St. Louis.
Second Vice-Pres., Brace Hayden San Francisco.
Sec-Treas., T. James Fernley, Philadelphia.
Ex. Com., W. K. Belknap, Louisville; John C. Koch, Milwaukee; R. A. Kirk, St. Paul; Samuel A. Bigelow Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham.
Advisory Board, W. W. Supplee, Philadelphia; H. H Bishop, Cleveland, John Bindley, Pittsburg

National Retail Hardware Dealers' Association.

Pres., W. P. Lewis, New Albany, Ind.
Vice-Pres., Geo. Hubbard, Flint, Mich.
Sec., M. L. Corey, Argus, Ind.
Treas., H. T. Helgeson, Milton N. D.
Ex. Com. Z. T. Miller, Bloomington, Il.; Fred Neudorff, St. Joseph. Mo; I. A Sibley, South Bend Ind.; H. A. Cole, Council Bluffs, Ia.; H. G. Cormick, Centralia, Ill.

North Dakota Retail Hardware Dealers' Association.

Pres., H. T. Helgesen, Milton.
Vice-Pres., H. N. Joy, Hamilton.
Treas., W. H. Pinkerton, Lakota.
Sec., C. N. Barnes, Grand Forks.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; H. F. Strehlow, Casselton; I. L. Newgard, Grafton; H B. Allen, Jamestown; H. A. Mae. Church's Ferry.

Ohio Hardware Association.

Pres., O. M. Scott, Marysville.
Vice-Pres., W. P. Bogardus, Mt. Vernon.
Cor. Sec., Geo. Gray, Coshocton.
Financial Sec., Will C. Jones, Columbus.
Treas., H. G. Woodward, Sidney.
Ex. Com., Geo. B Meyer, Cincinnati; Geo. V. Guyton, Ada; H. F. Rahe, Cleveland; J. Rohrbacher Akron; A. H. Strome, Warsaw. Frank Winters, Lancaster; James B. Carson, Hamilton; R. Brown, Washton Court House.

Philadelphia Retail Hardware Dealers' Association.

Pres., Frank Schmidt.
Vice-Pres., Julius M. Aff.
Sec., T. B. Hendricksen.
Treas. Edward H. Shannon.
Trustees, Wm. E. Andrews, Lewis C. Claditg and Aaron I. Sanson.

St Louis Stove Dealers' Ass'n.

Pres., F. A. Kansteiner.
First Vice-Pres., Aug. Steinmeyer.
Second Vice Pres., Aug Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Association.

Pres., J. D. Moore, Birmingham Ala.
1st Vice-Pres., F. A. Heitman. Houston, Tex.
2d Vice-Pres., Bruce Keenor. Knoxville, Tenn.
Sec., C. B. Carter, Knoxville, Tenn.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Irela d, Greensboro, N C; B. F. Eshleman, New Orleans.

Texas Hardware Jobbers' Association.

Pres., F. A. Heitman, Houston.
1st Vice-Pres., J. C. Bering, Houston.
2d Vice-Pres., Ed. Strauss, Waco
Sec.-Treas., Robert Eikel, Houston.
Ex. Com., Jas. Moroney, Dallas; R. F. Bell, Weatherford; W. L. Sanford, Sherman; A. E. Goeth, Austin.

Wisconsin Retail Hardware Dealers' Association.

Pres., John Hessel, Antigo.
Vice-Pres., Otto Schlafer, Appleton
Sec., C. A. Peck, Berlin.
Treas., George Leverenz, New Holstein.
Ex. Com., Henry Droegkamp, Milwaukee; Arthur Heins, Tigerton; E. H. Ramm, New London; J. Wilkie, Fond du Lac.

Charles Batcher, lumber dealer at Staples, Minn., has added hardware to his stock.

Cain Bros. succeed to the hardware business of H. W. Severens, at West Concord, Minn.

Hart & Hollenbeck, Lake Odessa, Mich., dealers in hardware, have dissolved partnership.

W. D. Miller has succeeded J. W. Wood in the hardware and stove business at Yates City, Ill.

The Page Fence Co., Adrian, Mich., have increased their capital stock from $240,000 to $1,000,000.

A meeting of the stockholders of the newly organized plow combine was held at the Auditorium Hotel, Chicago, Oct. 1.

C. A. Barnes, W. S. Chapman and Laura B. Chapman are the incorporators of the Field Force Pump Co., Lockport, N. Y., capitalized at $50,000.

David S. Quimby, a Brooklyn (N. Y.) hardware dealer, died at his home, 428 Hancock street, that city, on Sept. 24. He was in the fifty-eighth year of his age.

Francis A. Kennedy, William P. Coghlan and Thomas H. Sears are the incorporators of the Holyoke Steam Boiler Works, Trenton, N. J., capitalized at $600,000.

Holton & Gray, Braddyville, Ia., hardware dealers, are victims of a fire which devastated that place on Oct. 1. Their loss was $14,000, $9,400 of which was covered by insurance.

G. W. Hall, Rantoul, Ill., is a recent victim of fire, which destroyed all his catalogues. He advises us in a recent favor that he would be glad to have manufacturers send him their latest catalogues and price list.

Horace G. Culter, secretary of the Culter & Proctor Stove Co., Peoria, Ill., was a recent caller at THE AMERICAN ARTISAN office. Mr. Culter is returning from a three weeks' vacation spent at Petoskey, Mich.

Joseph Balsano was in the Jacob Hardware Co.'s store, at 2 Chatham street, New York, Sept. 30, and was being waited on by Tony Luido, a clerk, when another man asked to look at some revolvers. He asked Balsano's opinion of the one shown to him and the latter produced his own pistol, saying: "If you want a good gun get one like that." As the stranger handed it back the weapon was discharged and the bullet hit the clerk in the left wrist.

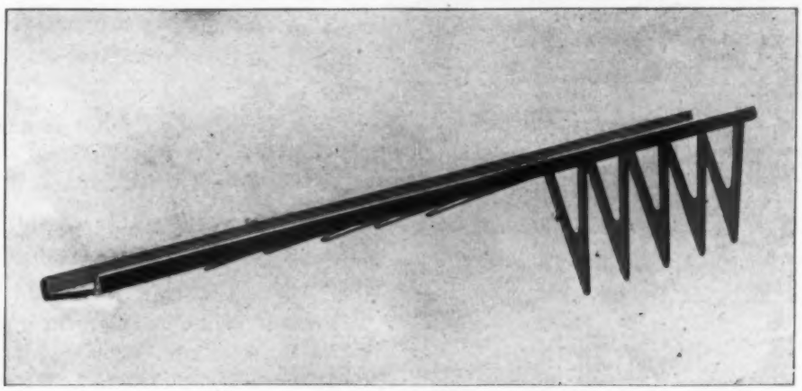
A MAGAZINE FOR COLLEGE MEN.

The Business Side of a Great University, by President Harper, of the University of Chicago, is the opening article in the College Man's Number (October 12) of The Saturday Evening Post, of Philadelphia.

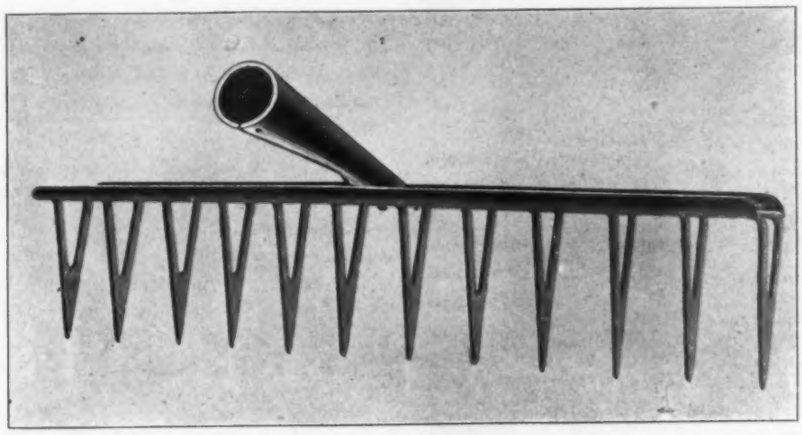
Theodore Roosevelt, Harvard '80, is the title of an entertaining paper on the President's college life, by his friend, Owen Wister. Other strong features of this number are short stories by Max Adeler, Jesse Lynch Williams and Frank Norris, and a page of droll "Nature Studies," by Oliver Herford.

PRESSED STEEL RAKE.

The Pressed Steel Rake Co., Buffalo, N. Y., are manufacturers of the pressed steel rake, shown in the accompanying cut. This rake is designed on correct principles, the teeth being strongest in the direction of the strain and thin in the direction where there is little or no strain. Being of steel they will bend slightly, but spring back into place. The bars are received in long lengths, and the edges are channeled, as shown, to give stiffness. By another operation the teeth are cut and pressed down at right angles, all uniform in size, shape and spacing. The material used is the best open hearth steel, uniform in quality and made especially for this firm. The ferrule in this rake is made of sheet steel cut into blanks and then pressed into shape. Holes are punched for riveting to the rake-head and for securing to the handle. Before riveting the ferrule is forced into the channel of the rake-head, making a firm and secure attachment. Rivets, however, are used as a double precaution against their coming loose. They are secured to handles by means of a small steel staple. These rakes are made with 10, 12, 14 and 16 teeth, all uniform in shape, size and quality of material. The teeth are very strong in the direction requiring strength and amply strong in the other direction. They may seem light, but by sufficient pressure they may be bent one over against the other, and when released will return to their original position.



Method of Manufacture.



Finished Rake Head.

PRIZE WINNING AMMUNITION.

The King Powder Co., Cincinnati, Ohio, are greatly pleased with the successful scores made by experts using their (King's semi-smokeless) powder the past season, as, during the outdoor rifle shooting season of the present year, which is now drawing to a close, some remarkable scores have been made. At the great Schuetzen festival, at San Francisco, which occurred from July 14 to 23, and in the Schuetzen matches at the recent Sea Girt meeting, the shooting was of very high order. The highest scores in both of these tournaments were made by marksmen using American rifles and this powder.

King's semi-smokeless powder was also used by the winner of the revolver championship of the United States at the Sea Girt meeting, which closed recently.

The Peters Cartridge Co., Cincinnati, who are affiliated with this concern, load their Peters cartridges with King's semi-smokeless powder, and have done phenomenal shooting this season. Captain C. S. Richmond, of Savannah, Ga., who broke the world's 100-shot revolver record on the Standard American target at fifty yards, on June 4, 1901, causing a decided sensation among marksmen, used Peters 44 mid-range cartridges. His score was 916 out of 1,000 points, establishing a new revolver record, which as yet has not been equaled. These latest records fully sustain the showing of this ammunition in former years.

TYPICAL FLOAT OF RETAIL HARDWARE HOUSE

To The American Artisan.

I send you photo. of float which was constructed for the occasion of an old settlers' picnic, held here on Aug. 22 last. The framework of anvil was made of wood and built to scale 6" to 1"—scale was taken from an ordinary 135 pound Peter Wright's anvil. The framework was carefully covered with tar paper, and when

finished was an excellent representation of the genuine article. The dimensions were 14 feet from top of horn to heel, 6 feet high, base about 5½x6 feet. The firm's name, H. J. Lee, was lettered on each side, and altogether made a very nice representation of the business carried on. F. J. Brazda.

West Point, Neb., Sept. 21, 1901.

ASBESTOS SAD IRON.

The Dover Mfg. Co., Canal Dover, O., are manufacturers of the asbestos sad iron. We show herewith some of the features of their laundry iron for family use. The core is a solid block of the best obtainable iron. The advantages gained from this solid core are unequalled heat retaining powers and the weight necessary to secure a high polish on the work with the least possible muscular effort. The core is heavily plated with nickel, its face being ground absolutely true and beautifully polished.

Core.

Hood.

The hood is a neatly fitting nickel-plated cap which slips over the core, its lower edge resting upon the projecting flange of the core to which it is instantly and rigidly secured by the simple locking device elsewhere described. Every particle of the surface on the inside of the hood is lined with asbestos—of all known substances the one most insensible to heat. This asbestos lining serves a double purpose in that it effectually prevents the walls of the hood from becoming unduly heated, and at the same time retains the heat in the core by completely screening it when in use, from the air currents which so quickly chill the usual types of sad irons. A dead-air space between the upper surface of the core and hood materially supplements the non-conductive asbestos lining. As the hood is never upon the core, save when the iron is being used, it cannot become heated and is readily kept perfectly clean and bright at all times.

Handle.

Lock.

The handle is attached to a broad shield of sheet metal, which latter while firmly secured to the hood is so arranged that a wide air space intervenes between the upper surface of the hood and the under side of this shield. This construction, in connection with the insensible asbestos lining, entirely eliminates any possibility of the handle becoming more than slightly warm.

The locking device, which is made of a high-grade spring steel, is simple in construction, positive in its action and so firmly secures the hood to the core that it can only be detached by the operator.

FORTHCOMING CONVENTION NATIONAL HARDWARE ASSOCIATION.

The coming week will see the hardware jobbers and a goodly quota of hardware manufacturers in Cleveland. The seventh annual convention of the National Hardware Association, which will be held at the Hotel Hollenden, that city, on Oct. 9, 10 and 11, will be a record-breaker in point of attendance unless all signs fail. The association made a wise move in changing the date from late November to early October. A most interesting program has been arranged and the Cleveland manufacturers have been working like beavers to see that nothing tending to the comfort and pleasure of the visitors is left undone.

WILL ENTERTAIN VISITORS.

The Hardware and Manufacturers' Club of Chicago, an organization formed of local hardware men to entertain western delegates to the National Hardware Association Convention, have prepared the following program for Oct. 8:

"Guests will meet at Technical Club, No. 230 South Clark street, Chicago, at 2 o'clock, where tally-hos will be in waiting for a tour of the South parks and residence districts, returning to the club house at 6 o'clock.

"At 6:30 o'clock guests will sit down to banquet (full dress positively prohibited), and after banquet, board train for Cleveland via Lake Shore R. R., leaving Chicago at 10:35 p. m., and arriving at 7:40 Wednesday morning.

"Arrangements have been made with the railroad companies to allow regular convention rates to all who attend. When purchasing tickets *ask for certificate*, stating that you are about to attend the convention of the National Hardware Association. The certificate will permit the purchaser to return to the point at which ticket is purchased for one-third (1-3) the fare paid for going to Cleveland, and will be good until Oct. 19.

"Arrangements for sleepers have also been made."

OUT OF DATE ADVERTISING.

Canadian Hardware, of Sept. 28, says: "In an Ontario weekly there is an advertisement this week

offering blue flame oil stoves, ice cream freezers and refrigerators. Another hardware man offers harvest tools, particularly hay rakes, while a druggist draws attention to the excellence of the paris green he has on sale."

SOME BON BONS.

At the New York state convention, the following terse expressions of sentiment and conviction were hung on the walls, says the American Grocer:

"Organization is essential to all progress."

"Do you deserve protective laws? Then demand them."

"Long hours degrade the grocery business; shorter hours elevate it."

"The paramount issue with a real grocer is profit."

"Beware of cheap goods—they are always the dearest."

"Some who seem anxious to give away goods imagine they are merchants."

"Cheap groceries, like cheap help, cost most; serve least."

"Our law makers are largely responsible for dishonesty."

"You sell sugar at cost—any fool can do that."

"Liberal dealing with the grocer lessens the doctor's bills."

BUSINESS CHANGES.

NEW FIRMS.

Anadarko, Kan.—Frank J. Callahan.
Aplington, Ia.—J. P. Arends.
Augusta, Ga.—Builders' Supply Co.
Bentonville, Ark.—The J. G. McAndrew Hardware Co.
Black Hawk, Colo.—Clark Hardware Co.
Farming, Minn.—Willenbring & Bock.
Fayetteville, N. C.—The Huske Hardware Co.
Hyde Park, Mass.—J. E. Farrell.
Presque Isle, Me.—The Washburn Hardware Co.
St. John, Kan.—The Gray Hardware & Implement Co.
Springfield, Ohio.—Hugel & Heiserman.
Bonaparte, Ia.—Charles Stebbins.
Bowling Green, Ky.—Walter H. Millers.
Wild Rose, Wis.—Bard & Hotz.
Winsted, Minn.—Mike Campbell.
Brookings, S. D.—F. E. Putnam Hardware Co.

CHANGES.

Superior, Wis.—G. A. Stensrud has purchased the interest of his brother, C. O. Stensrud, in the hardware business at 305 West Fifth street, which has been known as the Stensrud Hardware Co., and will hereafter conduct the business in his own name.

Shelbyville, Ill.—H. M. Tallman succeeds Hart Bros.

Lapaz, Ind.—Henry T. Shirk succeeds Y. K. Shirk.

Hepburn, Ia.—J. E. Brownlee & Co. succeed Swanson Bros.

Hanover, Ill.—John McIntyre succeeds Mr. Hutton.

Deep River, Ia.—The stock of Axtell & Co. has been purchased by H. H. Connell.

Prescott, Ark.—O. R. McDaniel succeeds the McDaniel-Milburn Hardware Co.

Danbury, Ia.—J. T. Sigmon purchases an interest with W. C. Cameron.

Waterloo, Ia.—Ed. H. Wilson has sold the hardware stock he recently purchased from Birden & Atland to Elmer Hewbecker and S. H. Gimre.

Oconomowoc, Wis.—Otis Gilbert moves the stock he purchased of William Hintz.

San Jose, Ill.—E. M. Thomas purchases a half-interest with J. W. Morrison. The new firm name will be Morrison & Thomas.

New Richland, Minn.—W. Bruzek succeeds J. E. Thambert.

Bowling Green, Ky.—There has been a change made in the firm of Miller & Claypool, Mr. W. Claypool having purchased the hardware interest of his partner, Mr. Miller. He will continue the business.

Boydton, Va.—Mrs. Belle Park, widow of C. D. Park, has sold an interest in the hardware business, owned and managed by her late husband, to her sister, Miss Humrickhouse. The business will be known as the Park Hardware Co., and will be managed by J. J. Humrickhouse.

Burnt Hills, N. Y.—F. C. Hall has sold his stock, fixtures, etc., to F. J. Hall & Co.

Des Moines, Ia.—Manager E. A. Faeth, of the Des Moines Iron Co., has purchased the heavy hardware stock of the Seeberger Hardware Co., and will remove it to 117 Court avenue. The wagon stock department was also purchased from the same firm, and will be used by Mr. Faeth, who is expanding his business.

Franklin, N. H.—J. Edward Beck succeeds C. H. Smith.

Gorham, N. Y.—M. D. Crosier, formerly of this place, has purchased his partner's interest in Dixon & Crosier, at Phelps, and continues to conduct the same.

Greene, N. Y.—The hardware firm heretofore known as N. D. Martin has been purchased by L. G. & F. S. Martin, and will hereafter be known as Martin Bros.

Little Rock, Ark.—Pfeifer & Simpson dissolve.

Lanark, Ill.—W. A. McKibben has purchased the Lanark Hardware Store.

Malone, N. Y.—George S. Howard has disposed of his interest in the hardware business of Howard & Short to Charles W. Wilding and his partner, Wallace C. Short, and the new firm has organized under the firm name of Short & Wilding.

McMinnville, Tenn.—The firm of Morford & Rogers dissolve.

Maryville, Mo.—George Shoptaugh and John Thornhill has purchased the hardware business of J. E. & W. H. Hudson.

Morrisville, Vt.—D. L. Sanders has purchased the C. A. Gile interest in Gile & Churchill.

Monroe, N. Y.—The Smith Bros. have taken possession of the hardware store recently purchased of John D. Bouton.

Lakeport, N. H.—C. P. Brown succeeds J. T. Bugbee.

Seguin, Tex.—George Suchart has purchased an interest in the Seguin Hardware Co.

Sheboygan, Wis.—W. H. Sprangers has disposed of his real estate and stock of goods to E. H. Williams for $20,500.

STOPPAGES.

Frankfort, Ind.—Elmer E. Lewis.
Lime Springs, Ia.—J. F. Lindeman & Co.
Mechanicsburg, Ohio.—Stuart & Legge.

MISCELLANEOUS.

Monroe, Wash.—B. F. Monck, fire. Loss, $2,000.
Castile, Wyo.—Cole & Andrus, fire.
Springtown, Tex.—G. L. Young, fire.
Knoxville, Ia.—Vandrimmelen & Co., fire.
Kingsley, Mich.—J. H. Monroe, fire. Loss, $2,500.

Emporia, Kan.—Loy & McDill add a line of hardware.

Fairmont, Minn.—August Retke has decided to put a stock of hardware into his new building. A one-story addition is now being built onto the rear for a tin shop. Mr. Retke's son August, employed at present in a hardware store at Sleepy Eye, Minn., will have charge of the business.

Bloomington, Ill.—J. V. Milner Hardware Co., capital stock increased from $10,000 to $15,000.

Boothbay Harbor, Me.—Newbert Pierce has leased the basement of Lewis & Dunton's rear store and fitted it up for his builders' hardware, doors, sash and blind business, and has moved into the same.

Cincinnati, Ohio.—The Pickering Hardware Co., of Fifth and Main streets, has purchased the four-story brick building adjoining on the south, and has established the sporting goods department there.

Advertising Department.

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

These advertisements of the Standard Oil Co. are taken from small country weeklies and show how this

corporation is busily engaged in a publicity campaign in favor of oil stoves. Both these advertisements are attractively displayed.

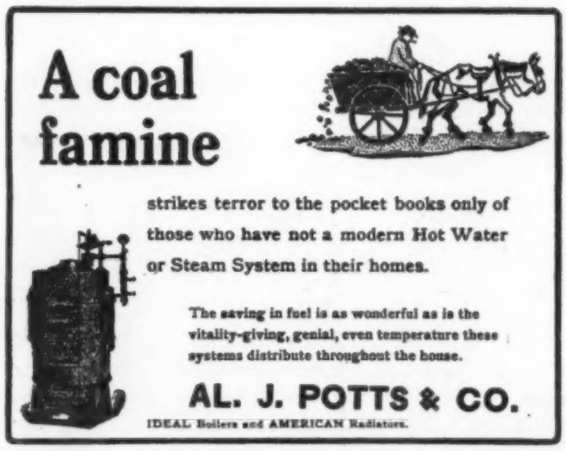
The advertisement "From Washday to Baking Day"

is much the better of the two, and should sell more oil stoves, as it is written in an interesting manner and gives in small compass the various advantages of oil stoves.

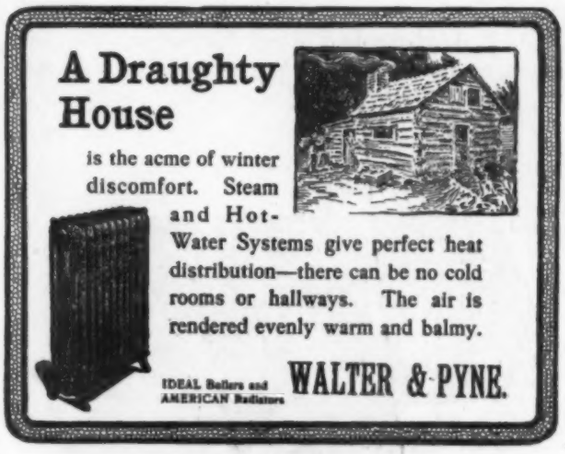
H. J. Lee's advertisement is marred by the use of a stock cut, whose strained play on words will not be

seen readily by the casual readers of the advertisement. Then, too, the reading matter does not fit the cut. I see no hoe, rake, spade, shovel or dandelion spud in the cut, which shows an axe, knob, hasp, ice tongs, ice shaver, lemon squeezer, trowel, etc., all drawn in a most ridiculous proportion. It is strange such a cut as this should have a market, but, perhaps it is given away; who knows.

In a St. Peter (Minn.) paper, sent me the other day, the two most conspicuous advertisements are those of Walter & Pyne and Al J. Potts & Co. The reason whereof is that these firms both avail themselves of the advertisements prepared by the American Radiator Co., Lake and Dearborn streets, Chicago, for the use



of their customers. In the matter of type, border and spacing of the advertisement, these firms get a very superior advertising service at no cost to themselves. In many cases where manufacturers help retailers with ready-made advertisements it is a duplication of the old story of prize money distribution, where the money was thrown through a ladder, the officers getting all that went through, and the sailors all that stuck to the rungs, the manufacturers playing the role of officers and the dealer the role of able seaman. These adver-



tisements are different, as they are distinctly retail advertisements. The ordinary citizen, reading this advertisement, does not learn who makes these boilers and radiators, or where they are located.

The J. T. C. Mfg. Co. has been organized at St. Paul, Minn., by J. T. Clark, M. L. Clark and W. B. Douglas. This firm are capitalized at $100,000 and will manufacture hardware specialties.

Heating and Ventilating.

A. McCreery, Tannersville, N. Y., has embarked in the heating business.

Frank Distle Jr. will carry on the business of the Peninsula Heating & Plumbing Co., Houghton, Mich.

John W. Fryer, a steam and hot water contractor, located at 141-143 Centre street, New York, has assigned.

Geo. R. Allison, John W. Avery and Ralph McKee are the incorporators of the Hundley Heating & Furnace Co., Jersey City, N. J.

J. W. Conway, Jeremiah McCauley and George Botts are the incorporators of the Conway & McCauley Co., New York, capitalized at $30,000, for the manufacture of heating apparatus.

Henry W. Wendt, of the Buffalo Forge Co., Buffalo, N. Y., was one of the members of the Czolgosz jury, and rendered the verdict that any other man in the trade would have done.

The Rhodes Mfg. Co., Grand Rapids, Mich., send us an illustrated catalogue, showing their line of furnaces. The body of the Rhodes furnace is of cast iron, very heavy, while the radiator is of cold rolled sheet steel. This furnace has a very heavy firepot. It has a powerful, quick-acting and easily cleaned radiator. Each drum extends clear through the rear end of the casing and is provided with a removable head. It is well suited to low cellars and can be placed in one six feet high. It is supplied with chains for regulating the draft from upstairs and has separate grates for coal and wood. It is very simple in construction, and economical in the use of fuel.

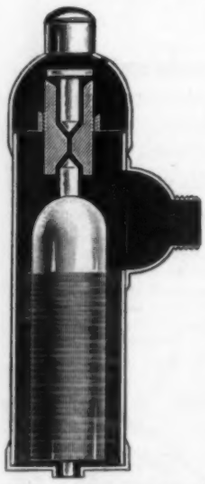
NEW "AJAX" FURNACE.

J. P. Lindemann & Sons, Milwaukee, Wis., are western agents for the new "Ajax" furnace, manufactured by the Co-operative Foundry Co., Rochester, N. Y. A feature of this furnace is found in the downdraft hot blast gas and smoke consumer, entirely new and original. The radiator is made of heavy boiler plate with cast top and bottom securely put together with asbestos cement, insuring a dust as well as a gas tight furnace. It is so constructed that the hot air makes a complete circuit after leaving the dome before entering the smoke exit, thus obtaining all the benefit of the fuel. The dome is large and heavy, being cone shaped. The air passes close to the fire pot, then over dome and between radiator, obtaining full benefit of all the heat. The ash pit is large and deep and the door of sufficient size to render the replacing of the grate an easy matter. The triangular grates are used in the Ajax. The rods on the dome are outside and will not burn off.

Ajax Furnace.

THE ALLEN AUTOMATIC AIR AND VACUUM VALVE.

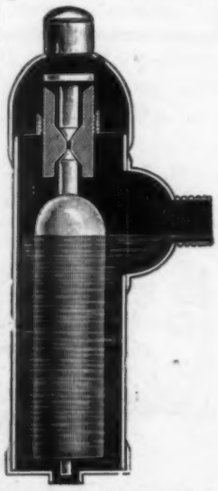
The Norwall Mfg. Co., 40 Dearborn street, Chicago, are just placing on the market a new automatic air and vacuum valve, shown in the accompanying cuts. This valve is a radical departure from existing forms and has interested steamfitters who have been greatly pleased with its durability, easy working qualities, and absolutely automatic nature.



Allen Automatic Air and Vacuum Valve, Open.

This valve is very simple. A shell, with the radiator outlet or inlet so placed as to form a well in the lower half of the valve to receive and retain the condensation from the steam as it passes into or through the valve. A sealed copper float is placed in this well and as the steam condenses the well gradually fills and floats the float to its seat, effectually closing the valve. As the radiator cools when the steam goes down or from closing the radiator valve, the surplus water in the well flows back into the radiator and the float drops. Pressure makes no difference, as the operation is the same with one pound pressure or fifty pounds. The small, loose pin in the top of the valve is the vacuum pin. As the radiator cools and the air seeks to enter the radiator to take the place of the condensing steam, the vacuum pressure causes the pin to seat itself and then provides a positive automatic seal or check against air entering the radiator through the valve.

This valve works entirely by flotation. It floats and will always float as long as air is lighter than water.



Allen Automatic Air and Vacuum Valve Closed.

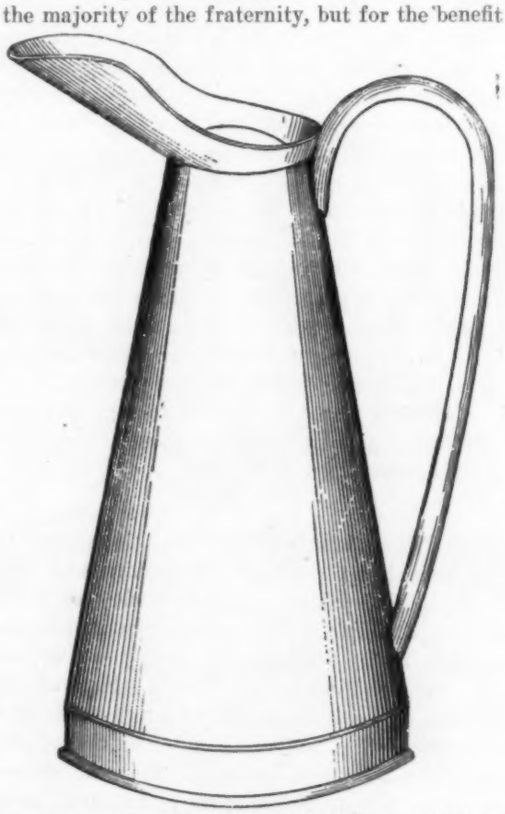
The price is 35 cents, a very low one for an automatic vaccuum valve.

Tinshop.

A HOT WATER JUG.

TO THE AMERICAN ARTISAN.

I am in receipt of a sketch from England which I thought might prove interesting to the multifarious readers of the tinshop. My correspondent informs me that it has recently been made there, and has been kind enough to make a crude sketch of it and forward to me for my benefit, he knowing my proclivities for anything new or out of the ordinary run in sheet metal goods. The perspective drawing enclosed exhibits a side elevation of the completed utensil, and I think it will suffice for the majority of the fraternity, but for the benefit of



the younger artisans I will treat briefly as to the manner in which it is put together.

The body is flaring, as illustration shows, the pattern for which being one of the simplest and one of the first things learned by the apprentice, so to dwell upon it would be superfluous other than to say that the attitude of same is 10 inches, the top diameter being 2½ inches, while the bottom has a radius of 3 inches or is 6 inches wide. When cutting the pattern allowances should be made for wiring the top with No. 14 Birmingham gauge wire and calculations should be borne in mind for a "lock seam" up the side of the body. The bottom of the jug is secured to the body by a seam which is familiarly known as a "turn up" joint. The rim whose approximate circumference is 18¼ inches, has a "lap" or "soldered seam" and the bottom edge is wired with No. 7 or 8 wire. This being done, it is "clapped on" bottom and, to make its position permanent, a little solder should be applied all around its edge. Now comes the lip or spout, which has also a "soldered" or "lap" seam and whose edge is wired with No. 10 or 14 wire, while the handle is made of cylindrical tube, bent to the required form and securely soldered, but in my opinion a flat handle wire with No. 14 wire and riveted to the body would answer equally as well.

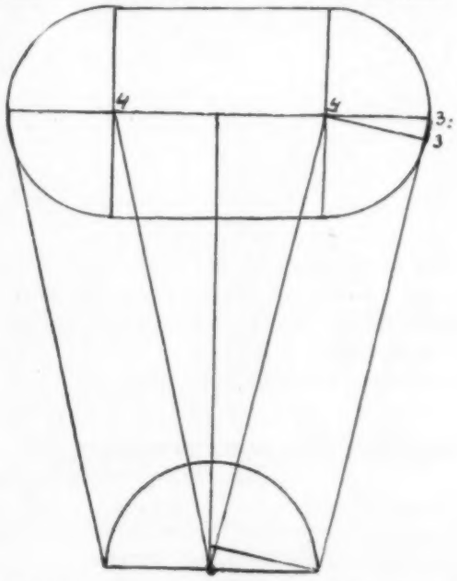
My informant closes by saying that the jug is enameled white inside, the outside being also enameled blue, or any other color that is preferable. I will now conclude by saying that I consider it a pretty pattern for a hot water jug and although I have not as yet made one myself, conclude doing so in a day or so, as warm water is very seasonable at this period in our changeable climate. S. M. S.

Quinnebaug, Conn., Sept. 20, 1901.

PATTERN FOR A TAPERING PIPE.

TO THE AMERICAN ARTISAN.

I have endeavored to cut the pattern for a tapering article. It is a pipe, round at one end and oblong at the other end. The article is to be 2⅝' high, 2½"x 1¼" at the base, and with a round top 1¼" in diameter. Enclosed is a drawing which shows the method I em-



ployed for cutting the pattern. This pattern is very easy to cut out; is nothing more than a pipe, cut in two lengthways, and each end cut on a slant, as shown in Fig. 2 (arch line No. 1). The height of arch is taken

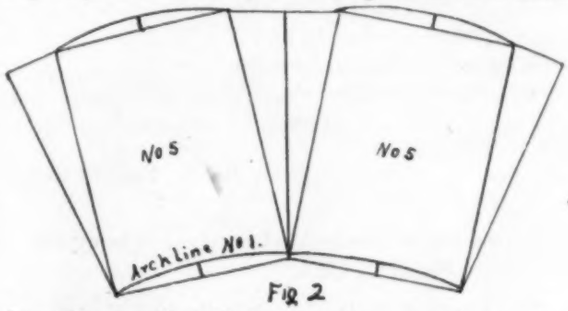


Fig 2

from No. 3 and 3, the wedge shape is shown by the three No. 4; now take your wedge shape and lay out your half joints of pipe on each side of it, as shown by No. 4 and 5; next take and lay half your wedge on each side of it with the square angle outward, then you have the pattern. I could explain it in various ways, but

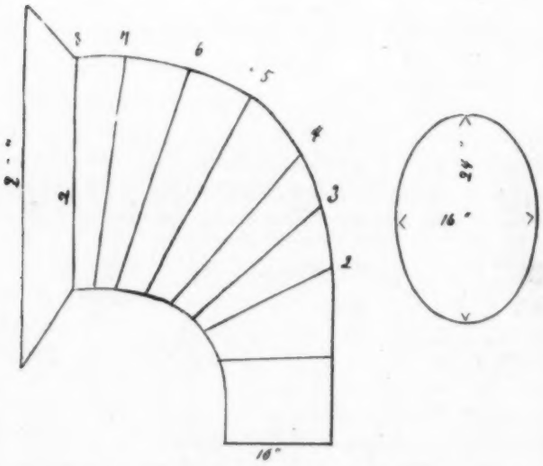
this will do, for almost any one that has a little idea of pattern cutting can cut the same. If the article is cut larger at the top all that is required is to lay the plan out larger at the top and take the measures from plan. I send this to the Tinshop to see if any one has a better way of doing it. "ELMER."

East Woodstock, Conn., Sept. 15, 1901.

PATTERN WANTED FOR A BOAT VENTILATOR

TO THE AMERICAN ARTISAN.

Enclosed please find a drawing of an article for the laying out of which I would like to have my brother tinsmiths give me an easy rule. I call them wind



sails, but I am not sure if that is the right name or not. But any tinsmith who has done any boat work will know what I mean. It is from a 10-inch round pipe to an oval 16x24 inches. S. M. S.

Quinnebaug, Conn., Sept. 20, 1901.

DESIRES THE BOYS STIRRED UP.

TO THE AMERICAN ARTISAN.

Please stir the boys up. We old fellows enjoy reading the hardships of the wind mill tinners.

Alexis, Ill., Oct. 1, 1901. J. JACCQUES.

NOTES AND QUERIES.

AUER REGISTERS.

From A. L. Thompson, Homer, Ill.

Who makes the Auer register?

Ans.—Auer Register Co., Toledo, Ohio.

ITEMS.

James C. Gormly succeeds Robert Falkner as a Macon, Ga., tinner.

A new tin and malleable iron plant is being constructed at Columbus, Ohio.

The David H. Wells Co., capitalized at $15,000, is a new Wilmington, Del., roofing and cornice concern.

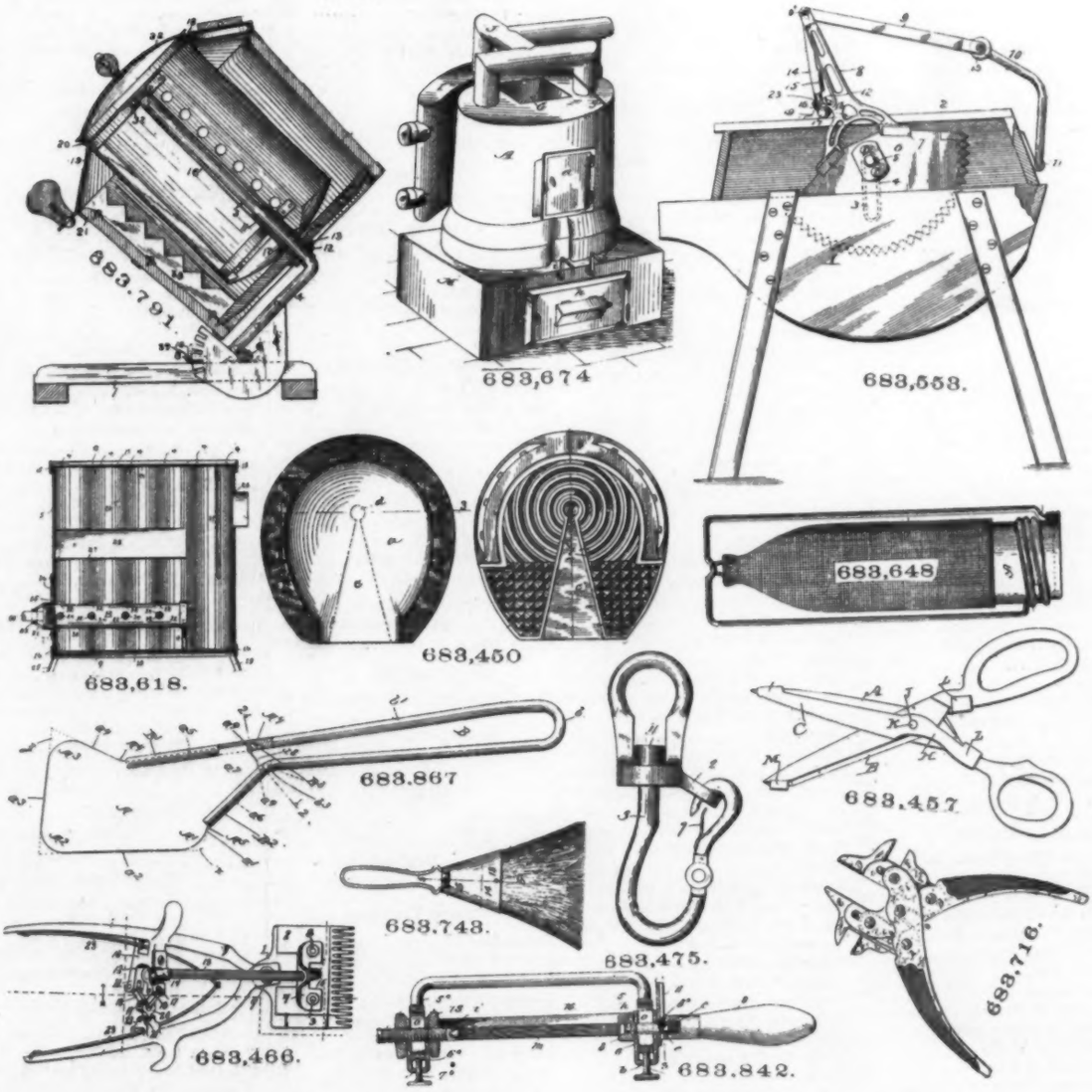
We are indebted to the J. M. & L. A. Osborn Co., Cleveland and Columbus, Ohio, for some handsome blotters showing a half-tone of the first Methodist Episcopal Church, Troy, Ohio. This church is covered with Osborn's genuine charcoal iron roofing tin, which is made with a charcoal iron base and is hand dipped.

The Niagara Machine & Tool Works, Buffalo, N. Y., who are widely known as manufacturers of tools for sheet metal workers, both under this style and under their former name of Niagara Stamping & Tool Co., have been incorporated with a capital stock of $200,000, by Julius W. Gorger, Adam E. Heinz, Otto J. Lautz, George A. Lautz and George R. Munschauer.

The Clayton Lambert Mfg. Co., Detroit, Mich., send us a batch of circulars describing their various popular torches, candles and firepots. Their No. 20 torch gives a light equal to eight or ten gas lights. It will work in a high wind, and is consequently suitable for outdoor use. The tanks are made of heavy tin. The burners are very heavy, and each burner and valve is fitted with stuffing box. The No. 22 candle is clean, will not leak oil or grease, and is always handy. It can be carried in one's pocket, the size being 1¾ inches in diameter and 6½ inches high. The tank is drawn out of heavy brass and is free from seams. The burner screws on the top, making a tight joint. All parts are brass. Their coil firepot, No. 10, has a large and powerful generator, producing a large volume of gas, which gives a pure blue flame, which is intensely hot. All small or light castings are malleable iron. The coil is of extra heavy pipe, and the burner of steel. This firm would be pleased to send the trade some of their trade literature on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Willis Manufacturing Co., Galesburg, Ill., send us their latest catalogue of architectural sheet metal work, store fronts, cornices, window caps, skylights, crestings, finials, eave trough, roof gutters, conductor pipe, elbows, hangers, stamped metal ceilings, cornices, ridge and hip tiles. Their galvanized iron store fronts are made of galvanized, rock faced work, in a variety of styles and sizes. Their galvanized steel or copper cornices are built on iron stays and anchors. In their style A A the height of the cornice is 42 inches and the projection is 14 inches. They make a superior line of plain, circular and stamped mouldings, enrichments and ornaments in zinc and copper. Their ridge crestings are suitable for wedge shape roofs or oblong towers. This firm have a large assortment of stamped and spun material in their ornamental department, from which finials, terminals, etc., can be made. Their metal skylights are all provided with condensation gutters and warranted not to leak if properly set. Their stamped metal hip shingles are adjustable to different widths shown to the weather. The offset or shoulder fits sungly against the butts of shingles, forming a gauge and also effectually excluding driving rain or snow. Their self-capping roll roofing is made from the best quality of box annealed steel, painted on both sides with the best of iron ore paint, ground in pure linseed oil. It is put up in rolls 50 feet long by 26½ inches wide and will lay one square. One of these volumes will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

Patents.



683,553.—Washing machine. John R. Carter, Augusta, Ky.

683,674.—Hot air furnace. William Williams, Austin, Minn.

683,791—Ice cream freezer Josiah P. Perkins, Indianapolis, Ind.

683,618.—Gas radiator. Alonzo Noteman, Toledo, Ohio.

683,450.—Horseshoe pad. Charles Ehlers, West Hoboken, N. J.

683,648.—Mantel support. James Irons, Chicago, Ill.

683,867.—Butler's knife. James M. Stryker, Chicago, Ill.

683,457.—Cloth-holding attachment for shears. David S. Flowers, Garner, Iowa.

683,475.—Hook. Henry C. Masters, Hamilton, Bermuda.

683,743.—Sink brush. Charles A. Fogarty, New York, N. Y.

683,466.—Clipper. Howard L. Hills, Bath, Mich.

683,842.—Saw-sharpening device. Ira L. Bulson, Jacksonville, Fla.

683,716.—Parallel working pliers. Herman G. Weibezahl, New York.

NOT GETTING HER SHARE.

Eunice had been doing some figuring on her slate.

"Papa," she said, "do you know this country eats about 2,600,000 tons of sugar every year?"

"No, I don't know it," replied papa, taught by past experience to be cautious.

"Well, it's so. I saw it in a paper."

"Yes? What of it, dear?"

"Nothing, only I've been finding out how much every man, woman and child in the United States eats, on an average."

"Well, how much is it?"

"It's about 66 pounds a year. I don't believe I eat the half of that, and yet you make a fuss every time I want—"

"That'll do, child. I surrender. Here's a quarter. Go and get your box of candy."—Ex.

ADVERTISERS INDEX

ALPHABETICAL LIST.

Acme Pattern Works..... 46
Acorn Brass Works..... 45-53
Aitchison, The Robert Perf'd Metal Co..... 54
American Cutlery Co..... 59
American Radiator Co..... 15
Amer. Stove Repair Co..... 46
American Tinplate Co..... 58
Asheville Mica Co..... 46
Atkins, E. C. & Co..... 60
Atlas Bolt & Screw Co..... 1
Atlas Mfg. Co..... 1
Auer Register Co..... 19
Ayling Bros..... 47
Barnett, G. & H. Co..... 1
Beckwith, Estate of P D..... 20
Benbow-Brammer Mfg. Co..... 50
Berger Bros. Co..... 55
Bergstrom Bros. & Co..... 12
Berger Mfg. Co..... 58
Bertsch & Co..... 55
Blacklock Foundry Co..... 52
Bommer Bros..... 1
Boynton Furnace Co..... 13
Bradner, Smith & Co..... 57
Brauer, A. G..... 46
Brammer, H. F. Mfg. Co..... 50
Brand Stove Co..... 12
Bridgeport Crucible Co..... 46
Brohard Co..... 45
Bruce & Cook..... 56
Brucker, M..... 47
Buckeye Paint & Varnish Co..... 46
Burgess Soldering Furnace Co..... 55
Burton, W. J. & Co..... 18
Caldwell Mfg. Co..... 55
Canton Steel Roofing Co..... 58
Castle, Wilmot Co..... 18
Chapman, C. A..... 54
Chicago House Wrecking Co..... 56
City Stove Repair Co..... 47
Clark Novelty Co..... 2
Clark, Quien & Morse..... 50
Clayton, Lambert Mfg. Co..... 54
Cleveland Stamping & Tool Co..... 52
Columbus Bolt Works..... 1
Connors, Wm..... 1
Cooney-Geiger..... 56
Cope, Geo. W. Pattern Works..... 46
Cortright Metal Roofing Co..... 59
Depinet Foundry Co..... 47
Detroit Htg. & Ltg. Co..... 11
Detroit Steel Range Co..... 9
Detroit Stove Works..... 19
Disston's Henry Sons..... 51
Dixon, Jos. Crucible Company..... 44
Dover Mfg. Co..... 53
Dreis, Andrews & Krump..... 54
Duplex Truss Cornice Brake Co..... 54
Dust, Wm. T. Co..... 47
East Bangor Consolid'd Slate Co..... 57
Eller, J. H. & Co..... 56
Enterprise Mfg. Co..... 51
Enterprise Stove Co..... 17
Fanner Mfg. Co..... 19
Forest City Foundry Co..... 14
Fox Cutlery Co..... 54
Friedley & Voshardt..... 59
Galesburg Cornice Works..... 59
Galusha Stove Co..... 8
Garry Iron and Steel Co..... 57
Globe Ventilator Co..... 1
Gobeille Pattern Works..... 46
Great Western Stove Rep. Wks..... 46
Hart & Crouse..... 16
Harrington & King PerforatingCo 60
Henry & Scheible..... 14
Hoffman, Geo. W..... 45
Howes, S. M. Co..... 12
Illinois Roofing & Supply Co..... 59
Imperial Gas Lamp Co..... 52
Independent Register Co..... 14
Indianapolis Pattern Works..... 46
Ironton Wood Mantel Co..... 54
Bros..... 55
Jenner H. W. T..... 43
Joliet Stove Works..... 7
Jones, J. H..... 2
Jones & Dommersnas..... 44
Kelsey Furnace Co..... 2
Kewanee Boiler Co..... 2
Kimball Bros. Elevator Co..... 59
Klauer Mfg. Co..... 57
La Crosse Steel Roofing & Cor.Co. 57
Lee, Glass Andreesen Hdw Co..... 48
Lindemann, J. P. & Sons..... 4-5-10
Lufkin Rule Co..... 59
Malleable Iron Range Co..... 1
McClure & Co..... 60
McDonald Bros..... 47
Meyer Furnace Co..... 17
Michigan Hardware Mfg. Co..... 56
Monroe Furnace & Foundry Co. 14
Montross Metal Shingle Co..... 56
Morris, J: L. Stove Repair Co..... 47
Mueller, L. J. Furnace Co..... 12
Munsell & Co..... 45
National Enameling & Stamping Co..... 49
New Haven Novelty Machine Co..... 17
Niagara Machine & Tool Works..... 59
North Bros. Mfg. Co..... 52
Northrop, H. S..... 56
Obermayer, S. Mfg. Co..... 19
Old Dominion Iron & Nat. Works 55
Orr, Painter & Co..... 3
Osborn ,The J. M. & L. A. Co..... 60
Palermo Mica Co..... 47
Peck, Hubert..... 43
Perkins, J. L. & Co..... 54
Peters Cartridge Co..... 48
Phila. Hdw. & Malleable Iron Wks 18
Phipps Furnace Co..... 12
Pittsburgh Stove and Range Co..... 9
Plume & Atwood Mfg. Co..... 57
Portsmouth Stove & Range Co..... 8
Powers Bros..... 56
Quicklight Mfg. Co..... 44
Randleman Sons..... 50
Reading Stove Works..... 3
Resor, Wm. Co..... 16
Rochester Radiator Co..... 18
Rogers, S. L. & G. H..... 49
Schreiber & Conchar Mfg. Co..... 11
Schwab, R. & J. Co..... 10
Smith, Chas. Co..... 14
Smith & Hemenway Co..... 51
Sperry, D. R..... 51
Standard Chain Co..... 54
Stanley Rule & Level Co..... 51
Stellwagen & Kynoch..... 11
Stevens Arms & Tool Co..... 60
Sykes Steel Roofing Co..... 57
Taylor, N. & G. Co..... 60
Tinnerman Steel Range Co..... 11
Tower Mfg. Co..... 55
Townley, H. P..... 44
Union Stove Repair Co..... 46
Utica Heater Co..... 15
Utica Drop Forge and Tool Co..... 51
Warren, J. D. Mfg. Co..... 53
Weller Pattern Co..... 46
Welling Mfg. Co..... 50
White, Thomas..... 6
Willard, Wm. G..... 10
Wynn, Lewis D..... 47
Willis Mfg. Co..... 57
Wireton Heating Co..... 13

CLASSIFIED LIST.

Advertising Writers

Townley, H. P..... 44

Architectural Sheet Metal Work.

Friedley & Voshardt..... 59

Awnings.

Canton Steel Roofing Co..... 58

Brazing Forces.

Burton, W. J & Co..... 18

Building Paper.

Bradner, Smith & Co..... 57
Burton W. J. & Co..... 18

Ceilings-Steel.

Berger Mfg. Co..... 58
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Eller, J. H. & Co..... 56
Friedley & Voshardt..... 59
Garry Iron Roofing Co..... 57
Illinois Roofing & Supply Co..... 59
La Crosse Steel Roof & Cor. Co..... 57
Michigan Hardware Mfg. Co..... 56
Northrop, H. S..... 56

Cement.

Connors, Wm..... 1

Chains.

Standard Chain Co..... 54

Chimney Tops.

Berger Mfg. Co..... 58
Burton, W. J. & Co..... 18
Garry Iron & Steel Co..... 57
La Crosse Steel R.& C. Co..... 57
Powers Bros..... 56

Conductor Strainers.

Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Garry Iron & Steel Co..... 57
La Crosse Steel Roofing & Cor.Co 57

Cornices.

Berger Mfg. Co..... 58
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Garry Iron & Steel Roofing Co..... 57
La Crosse Roofing Co..... 57

Cornice Ornaments and Statuary.

Willis Mfg. Co..... 57

Couplings.

New Haven Novelty Machine Co. 17

Corrugated Arches.

Canton Steel Roofing Co..... 58

Dampers.

Brohard Co..... 45
Howes, S. M. Co..... 12

Drills.

North Bros. Mfg. Co..... 52

Eave Troughs.

Berger Mfg. Co..... 58
Berger Bros Co..... 55
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Clark, Quien & Morse..... 50
Cooney, Geiger & Co..... 56
Garry Iron & Steel Roofing Co..... 57
Illinois Roofing & Supply Co..... 59
La Crosse Steel Roof. & Cor..... 57
Welling Mfg. Co..... 50

Elevators.

Kimball Bros..... 59

Enamel Ware.

Nat. Enameling & Stamping Co..... 49

Faucets

Clark Novelty Co..... 2

Files.

Barnett, G. & H. Co..... 1

Flue Stoppers.

Welling Mfg. Co..... 50

Foundry Supplies.

Obermayer, S. Mfg. Co..... 19

Fuel Economizers

Burton, W. J. & Co..... 18

Furnace Cement.

Connors, Wm..... 1

Furnace Pipe.

Osborn, The J. M. & L. A. Co..... 60

Furnaces—Tinners.

Burgess Soldering Furnace Co..... 55
Clark Novelty Co..... 2
Clayton, Lambert & Co..... 54

Furnaces Warm Air.

Bergstrom Bros. & Co..... 12
Boynton Furnace Co..... 13
Brand Stove Co..... 12
Forest City Foundry Co..... 14
Kelsey Furnace Co..... 2
Meyer Furnace Co..... 17
Monroe Furnace & Foundry Co..... 14
Mueller, L. J. Furnace Co..... 12
Phipps Furnace Co..... 12
Schwab, R. J. & Co..... 10
Smith, Chas. Co..... 14
Utica Heater Co..... 15
Wireton Heating Co..... 13

Hardware Specialties.

American Cutlery Co..... 59
Atkins, E. C & Co..... 60
Atlas Mfg. Co..... 1
Atlas Bolt & Screw Co..... 1
Blacklock Foundry Co..... 52
Bommer Bros..... 1
Caldwell Mfg. Co..... 55
Chicago House Wrecking Co..... 56
Galesburg Cornice Works..... 59
Iwan Bros..... 55
Jones & Dommersnas..... 44
Lee Glass, Andreesen Co..... 48
Lufkin Rule Co..... 59
Nat. Enameling & Stamping Co..... 49
North Bros. Mfg. Co..... 52
Plume & Atwood Mfg. Co..... 57
Schreiber & Conchar Co..... 11
Sperry, D. R..... 51
Tower Mfg. Co..... 55
Warren, J. D. Mfg. Co..... 53

Heaters—Hot Water and Steam

American Radiator Co..... 2-15
Hart & Crouse..... 16
Kewanee Boiler Co..... 2
Smith, Chas..... 14

Hog Scrapers

Smith & Hemenway..... 51

Horse Nails.

Old Dominion Iron Nail Works..... 55

Horse-Shoes.

Old Dominion Iron & Nail Works 55

Hose Coupling.

Clayton, Lambert Mfg. Co..... 54

House-Furnishing Goods.

Blacklock Foundry Co..... 52
Chapman, C. A..... 54
Cleveland Stamping & Tool Co..... 52
Enterprise Mfg. Co..... 51
National Enameling & Stamping Co..... 49
Sperry, D. R. & Co..... 51

Knives.

Smith & Hemenway Co..... 51

Lawn Sprinklers

Smith & Hemenway..... 51

Lamps

Acorn Brass Works..... 45-53

Lights.

Acorn Brass Works..... 45-53
Imperial Gas Lamp Co..... 52
Quicklight Mfg. Co..... 44

Mantels.

Ironton Wood Mantel Co..... 54

Metal Shingles.

Burton, W. J. & Co..... 18
Cortright Metal Roofing Co..... 59
Garry Iron & Steel Roofing Co..... 57
La Crosse Steel Roof & Cor Co..... 57

Metals-Perforated.

Aitchison, The Robt Perf'd Metal Co..... 54
Harrington & King Perforating Co 60

Metallic Shutters.

Berger Mfg. Co..... 58
Burton & W J. Co..... 18
Canton Steel Roofing Co..... 58
Garry Iron & Steel Roofing Co.... 57
La Crosse Steel Roof & Cor Co.. 57

Mica

Asheville Mica Co..... 46
Munsell & Co..... 47
Palermo Mica Co..... 47

Mitre Boxes.

Smith & Hemenway Co..... 51

Nails.

Old Dominion Iron & Nail Works 55

Nail Pullers

Smith & Hemenway Co 51

Paints.

Buckeye Paint & Varnish Co..... 46
Burton. W. J. & Co..... 18
Canton Steel Roofing Co..... 53
Dixon, Jos. Crucible Co..... 44
Garry Iron & Steel Co..... 57
La Crosse Steel Roofing & Cor.Co. 57

Paper.

Bradner-Smith & Co..... 57
Burton, W. J. & Co..... 18
La Crosse Steel Roof & Cor. Co... 57

Patents.

Jenner, H. W. T..... 43
Peck, Hubert..... 43

Plyers and Nippers.

Smith & Hemenway Co..... 51

Polish.

Buckeye Paint & Varnish Co..... 46
Hoffman, Geo. W..... 45

Radiators.

American Radiator Co..... 2-15
Castle-Wilmot Co..... 18
Rochester Radiator Co..... 18

Razors.

Fox Cutlery Co..... 54
Smith & Hemenway Co..... 51
Utica Drop Forge & Tool Co 51

Registers.

Auer Register Co..... 19
Canton Steel Roofing Co..... 58
Schreiber & Conchar..... 11
Henry & Scheible Co..... 14
Independent Register Co..... 14
Phila. Hdw. Malleable Iron Wks... 18

Roofing.

Berger Mfg. Co..... 58
Bruce & Cook..... 56
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Cortright Metal Roofing Co..... 59
East Bangor Consolidated Slate Co 57
Eller, J. H. & Co..... 56
Garry Iron & Steel Co..... 57
Klauer Mfg. Co..... 57
La Crosse Steel Roofing Co..... 57
Montross Metal Shingle Co..... 56
Osborn, The J. M. & L. A. Co..... 60
Perkins, J. L. & Co..... 54
Sykes Steel Roofing Co. 57
Taylor, N. & G. Co..... 60

Sad Irons.

Dover Mfg. Co..... 53
Schreiber & Conchar Mfg. Co..... 11

Saws.

Atkins, E. C. & Co..... 60
Disston's Henry Sons..... 51

Saw Sets.

Smith & Hemenway Co..... 51

Scales.

American Cutlery Co..... 59

Screw Drivers.

North Bros. Mfg. Co..... 52
Smith & Hemenway Co 51

Sheet Metal Ornaments.

Michigan Hardware Mfg. Co..... 56

Siding.

Canton Steel Roofing Co..... 58

Sporting Goods.

Peters Cartridge Co..... 48
Stevens, J., Arms & Too Co..... 60

Skylights.

Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Friedley & Voshardt..... 59
Garry Iron & Steel Co..... 57
Jones, J. H..... 2
La Crosse Steel Roof & Cor. Co.. 57

Silverplated Ware.

Rogers, S. L. & G.H..... 49

Stove Boards.

Michigan Hardware Mfg. Co..... 56

Stove Bolts.

Atlas Bolt & Screw Co..... 1

Stove Casters.

Independent Register Co..... 14
Fanner Mfg Co..... 19

Stove Lining.

Connors, Wm..... 1
Bridgeport Crucible Co..... 46

Stove Patterns.

Acme Pattern Works..... 46
Cope, Geo. W. Pattern Works..... 46
Gobeille Pattern Works..... 46
Indianapolis Pattern Works..... 46
Weller, F. S..... 46

Stove Polish.

Ayling Bros..... 47
Dixon, Jos. Crucible Co..... 44
Wynn, Lewis D..... 47

Stove Repairs.

Amer. Stove Repair Works..... 46
Brauer, A. G..... 46
Brucker, M..... 47
City Stove Repair Co..... 47
Depinet Foundry Co..... 47
Dust, Wm. L. Stove Repairing Co 47
Great Western Stove Rep. Wks... 46
McDonald Bros..... 47
Morris, J. L..... 47
Union Stove Repair Co..... 46

Stoves and Ranges.

Beckwith, Estate of P. D..... 20
Castle, Wilmot Co..... 18
Detroit Htg. & Ltg. Co..... 11
Detroit Stove Works..... 19
Detroit Steel Range Co 9
Enterprise Stove Co..... 17
Galusha Stove Co..... 8
Joliet Stove Works..... 7
Lindeman, J. P. & Sons. 4-5-10
Malleable Iron Range Co..... 1
Orr, Painter & Co 3
Pittsburgh Stove & Range Co..... 9
Portsmouth Stove & Range Co..... 8
Reading Stove Works..... 3
Resor, Wm. Co..... 16
Tinnerman Steel Range Co..... 11
White, Thos. Stove Co..... 6
Willard, Wm. G..... 10

Stove Trucks.

Stellwagen & Kynoch..... 11

Stove Trimmings.

Atlas Bolt & Screw Co..... 1
Columbus Bolt Wks..... 1
Fanner Mfg. Co..... 19

Tacks.

Tower Mfg. Co..... 55

Tape Measures.

Lufkin Rule Co..... 59

Tinners' Tools and Supplies.

Berger Bros. Co 55
Bertsch & Co..... 55
Chicago House Wrecking Co..... 56
Dreis, Andrews & Krump 54
Duplex Truss Cornice Brake Co... 54
Lufkin Rule Co..... 59
Niagara Machine & Tool Works.. 59
Perkins, J. L..... 54
Stanley Rule & Level Co..... 51

Tinplate.

American Tin Plate Co..... 58
Bruce & Cook..... 56
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 58
Garry Iron & Steel Co..... 57
Illinois Roofing & Supply..... 59
La Crosse Steel Roof. & Cor. Co. 57
McClure & Co..... 60
Osborn, J. M. & L. A..... 60
Taylor, N. & G. Co..... 60

Tinware.

Cooney & Geiger..... 56
Enterprise Mfg. Co..... 51
National Enameling & Stamping Co..... 49

Ventilators.

Berger Bros. Co..... 55
Berger Mfg. Co..... 58
Burton, W. J. & Co..... 18
Garry Iron & Steel Roofing Co..... 57
Globe Ventilating Co..... 1
La Crosse Steel Roof. & Cor. Co.. 57
Powers Bros..... 56

Washer Cutters.

Smith & Hemenway Co..... 51

Washing Machines.

Benbow-Brammer Mfg Co 50
Brammer, H. F. Mfg. Co..... 50
Clark, Quien & Morse 50
Randleman & Sons 50

Water Heaters

Smith, Chas. Co..... 14

STICK TO THE STORE.

In every rural community there is a class of buyers who prefer to do their trading with the owner of the establishment visited. Whether it be a grocery, market, dry goods store, blacksmith shop or implement house, these buyers are not satisfied to deal with clerks and assistants, says the Farm Implement News. Apparently they believe that closer bargains can be driven with the proprietor, which may or may not be true. Many times have buyers of this class visited certain places of business with their minds definitely made up to purchase certain articles, but on learning that the proprietor was not present, either returned home without buying—and subsequently changed their minds—or went elsewhere to purchase the desired goods.

This teaches the importance of store owners remaining at their posts except when necessity compels absence. Under the head of necessities we would class periodical vacations and the occasional pursuit of pleasure toward which men's desires turn, which are essential to health and happiness. The unnecessary absences are the unprofitable visits to other places about town where men congregate to discuss various topics, after-dinner naps at home and the many needless goings here and there which add nothing to one's physical or commercial welfare. Into these habits many country merchants have fallen and they are continued at a heavy cost.

ASPHALT ROCK DEPOSIT IN KENTUCKY.

Numerous deposits of asphalt rock of a character suitable for street paving have been discovered in the central part of Kentucky, says Construction News. The deposits are shortly to be worked on a practical scale. The asphalt rock has long been known to the natives as black rock, and occurs in ledges of sandstone in the upper formations of the high plains and hills. It consists of pure asphalt and white quartz sand, the percentage of asphalt varying from 4 to 8 per cent. It is asserted in substantiation of the advantages of the rock that it is free from vegetable matter, clays and other impurities, and does not require the addition of petroleum oils, sand, limestone, etc., to make a paving material. When simply crushed this rock has been laid as a pavement, but in this shape it is too soft for summer use. Processes have been devised for treating the rock so as to obviate this natural softness.

BEHIND THE SCENES.

Circus Manager—What's all that row in the dressing room?

Attendant—Oh, the man who walks barefoot on swords ran a splinter in his foot.—Ex.

Trade Report.

BRADSTREET'S ON IRON AND STEEL SITUATION.

The editor of Bradstreets telegraphs us this advance report on the iron and steel situation:

Iron trade reports are the best of the year. Foundry and Bessemer pig iron are very active at Chicago and Pittsburg. Bessemer is 25c higher at the latter market, which reports September pig iron sales the largest since January. Finished and structural mills are two to three months behind on orders, and rail orders already booked insure activity far into next year. In order to catch up with current work the leading tube works mills will run Sundays hereafter. Hardware continues quite active at all leading markets. Among the other metals, tin, affected by the statistical position, broke early in the week, but firmed up without, however, regaining loss of about ½c a pound. Spot copper is firmer at London, while futures are weaker, but is unchanged and rather dull here.

WIRE NAILS.

There is a slight increase in the demand for wire nails, which are quoted at $2.45 in carload lots and $2.50 in smaller lots.

CUT NAILS.

The demand for cut nails has lately been increasing. Small lots are still listed at $2.35.

BARB WIRE.

The demand for barb wire is increasing, Painted barb wire is $2.75 in carload lots and $2.85 in smaller lots. Galvanized barb wire is $3.05 in carload lots and $3.15 in smaller lots.

CORDAGE.

The rope market is stiffer and higher prices generally rule. Manila rope, basis of 7-16 in. and larger, is quoted at 10¾c a pound—¼c rebate in large lots in some cases. Sisal rope is quoted at 8½c to 9c per pound. No. 1 jute thread rope, on a basis of ¼ in. and larger, is quoted at 6½c, and No. 2 at 6c. Jute yarn rope, on the same basis, is quoted at 5½c to 5¾c per pound.

WHITE LEAD IN OIL.

White lead in oil is firm at 6½c per lb. in 500 lb. lots or over, in lots of less than 500 lbs. 7c per lb.

LINSEED OIL.

The linseed oil market remains unchanged. City raw linseed oil is quoted at 65c to 66c per gallon.

SPELTER.

There was good demand and prices were strong at 4⅛c per lb. G. M. B. spelter was unchanged at £16 17s 6d per ton in London. St. Louis reported the market weak at 3.92½c sellers.

BARS.

The price of steel bars has been advanced $2 per ton. Some very large contracts have been closed during the past week for both iron and steel, the United States Steel Corporation alone having booked orders for steel bars aggregating 15,000 tons. Little material can be had from mills in this district for prompt shipment, all the independent concerns having sold their capacity during the period of the strike for at least two months ahead. We quote steel bars for immediate shipment, $1.75 to $1.80, Chicago, and iron, $1.70, Chicago. Out of store, steel and iron, 2c; on contracts for large lots and extended deliveries, steel, $1.65; iron, $1.60.

SHEETS.

The shortage in this material still continues, practically all the business being done through jobbers. It will be some months before the mills can again enter this market, owing to the large number of unfilled orders that were booked prior to the strike. Prices are irregular, according to the size of order and stock in jobbers' warehouses. We quote as follows, No. 27 black, $4.10 to $4.25, and galvanized, 60 per cent and 5 per cent from store.

STRUCTURAL STEEL.

There is no change from the situation reported last week. An enormous amount of building is being done in this city and contiguous territory, and a steady stream of orders of the smaller kind continues to come in. Owing to the fact that most of the mills are considerably behind in deliveries, there is a heavy demand from jobbers' stock, for which premiums are willingly paid. We quote mill shipments, carload lots, as follows: Beams, 15 inches and under, $1.75; 18 inches and over, $1.85; angles, $1.75 to $1.80; plates, $1.75, base; tees, $1.80; zees, $1.75; small lots from store, ¼c higher; beams and channels from store, ½c to ¾c per pound higher.

LEAD.

Trade was lively and prices were firm on the basis of 4⅜c per pound in 50-ton lots. Exports from New York amounted to 600 tons; arrivals were about 500 tons bullion from Mexico. Soft Spanish lead was unchanged at £12 3s 9d per ton in London. In St. Louis the market was firm, soft Missouri being quoted at $4.25@4.30 and chemical at $4.30@4.40c.

FINISHED MATERIAL.

Finished material continues to rule very strong, structural material being in the biggest demand. Orders are already being received for material for delivery early next year, and, while the capacity of all the local mills is taxed, new business continues to exceed the output, thus placing the mills further behind in their deliveries every day.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	10x14	$8 75
IX	10x14	10 25
IC	12x12	9 00
IX	12x12	10 50
IC	14x20	8 75
IX	14x20	10 25
IXX	14x20	11 75
IXXX	14x20	13 25
IXXXX	14x20	14 75
IC	20x28	17 50
IX	20x28	20 50
IXX	20x28	23 50

COKE PLATES.

Cokes, 180 lbs.	IC	20x28	12 70
Cokes, 200 lbs.	IC	20x28	13 00
Cokes, 216 lbs.	IC	20x28	13 30
Cokes, 216 lbs.	IX	20x28	15 25

PIG IRON.

Lake Sup. Charcoal	$17 50@	$18 00
Local Coke Fdy No. 1	15 50@	16 00
Local Coke Fdy No. 2	15 00@	15 50
Local Coke Fdy No. 3	14 50@	15 00
Local Scotch Fdy No. 1	15 50@	16 00
Local Scotch Fdy No. 2	15 00@	15 50
Local Scotch Fdy No. 3	14 50@	15 00
Southern Coke No. 1	14 90@	15 65
Southern Coke No. 2	14 40@	15 15
Southern Coke No. 3	14 40@	15 15
Southern Coke No. 4	14 15@	14 65
Southern No. 1 Soft	15 65@	16 00
Southern No. 2 Soft	15 15@	15 65
Southern Silveries	15 45@	15 50
Jackson Co. Silveries	17 00@	17 50
Ohio Strong Softeners	16 50@	17 00
Alabama Car Wheel	21 00@	22 00
Malleable Bessemer	16 00@	17 00
Coke Bessemer	17 50@	18 50

BLACK SHEET STEEL.

¼ in. 3-16 in. Nos. 8 and 10. per lb.	$3 80
No. 12 per lb.	3 85
No. 14 per lb.	3 90
No. 16 and 18 per lb.	3 95
No. 20, 22, 24, 25 and 26 per lb.	3 90
No. 27 per lb.	4 00
No. 28 per lb.	4 18

SMOOTH STEEL.

	per lb.
Wood's Smooth Steel, 15-17	$4 00
" " " 18	4 10
" " " 20	4 20
" " " 22-24	4 30
" " " 25-26	4 40
" " " 27	4 50
" " " 28	4 60

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Galvanized Iron 65%

SOLDER.

Extra	20½c
Commercial	19½c

SHEET ZINC.

600 lb. Casks, base 7¼c per lb.

COPPER.

Copper base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	28¾@28½c
Straits, pigs, per lb	28 @28¾c
Straits in bars, per lb	29¾@29 c

LEAD.

American Pig	4.60@4 62½c
	5¾@¼

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTERS'.

Hunt's	25%
White's	12½%
Coopers'—Barton's	12½%
White's	12½%
Ship—Barton's	12½%
White's	15%
Hunt's	25%

AGATE NICKEL STEEL WARE.

Agate Nickel Steel Ware 33⅓&10%

AMMUNITION

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1-10s	50c
G D	40c
Eley's	52c

CARTRIDGES.

Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal	10&10%
Peters Blank Ctgs. 32 cal	10&10%
Peters B B Caps, Round ball	$1 18
Peters B B Caps, Conical ball	$1 90
U. M. C. Rim Fire Ctgs	50&3%
U.M.C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. Blank Ctgs. 22 & 32 cal	10%
U. M. C. Blank Ctgs. 38 cal	50-10-10%
U. M. C. B B Caps, Round Ball	$1 75..25&10%
U .MC. B B Caps, Con. Ball	$2 00 net
U. M. C. Rim Fire Shot Ctgs	50&15&3%
U. M. C. Cent. " " "	25&10&3%

PRIMERS.

Berdan Primers	$1 00
Peters Primers	1 10
U. M. C. Primers	1 08
Winchester Primers	1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League	25&5%
Peters Empty Paper Shells, 16 gauge. League	20&5%
Peters New Victor Nitro shells	15%
Ideal	33⅓&10%
Peters Loaded Shells. League and Semi-Smokeless	40&5%
Peters New Victor Loaded Shells, with King's Smokeless	40&10&10%
Ideals Loaded with Kings Smokeless	40&10&10&5%
U. M. C, New Club, 16 guage	20&10%
U. M. C. New Club 10 & 12 gauge	33⅓&5%
U. M. C. New Club	33⅓&5%
U. M. C. Nitro	18%
U. M. C. High Base	18%
U. M. C. Trap	33⅓&10&7%
Winchester Blue Rivals / Winchester Yellow Rivals	20%
Winchester Repeater	18%
Winchester Leader	33⅓&10&7%
U. M. C. Loaded Shells. Black Powder / Winchester Loaded Shells, Black Powder	40&5%
U. M. C. / Winchester — Smokeless	40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads	20&5%
U. M. C. Gun Wads	20&5%

POWDER.

King's Quickshot Powder; Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
King's Semi-Smokeless 20&5%
King's Smokeless 25, 20 & 10
Austin Quickshot Powder, Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
Dupont Smokeless, Sporting 25, 20 & 10c.

SHOT.

Drop shot, sizes smaller than B, 25-lb bags, per bag	$1 35
Drop shot, B and larger sizes, 25-lb bags, per bag	1 00
Buck Shot, 25-lb bags, per bag	1 60
Chilled Shot, 25-lb bags, per bag	1 60

ANVILS.

Hay-Budden, 70 to 84 lbs	10c per lb
Hay-Budden, 85 to 150 lbs	9c per lb

AUGERS AND BITS.

Snell's Boring Mach. Augers	60&10&5%
Snell's Car Bits, 12-inch twist	40%
Jennings' Pattern Auger Bits	50&10%
Russell Jennings' Augers and Bits	25&10%
Ship Augers, L'Hommedieu Bits	15%
Irwin	50%
Climax Bits	60&10%

AWLS.

Brad, handled per doz.	$ 35
Brad, shouldered, assorted 1 to 4 per gr.	2 00
Brad, shouldered, assorted 1 to 6 per gr.	2 50
Peg, Pat per gr.	60
Peg, shouldered per gr.	1 00
No. 1, Scratch, handled per gr.	4 80
No. 5, Scratch, socket per doz.	6 00

AXES.

Lippincott per doz		6 50
Mann	"	6 50
Second quality	"	6 00
Beveled axes, add	"	50
Broad—		
Peerless can patt	"	28 50
Hunt's	"	30
White's	"	12%
Hand—		
Hunt's	"	40
White's	"	12%
Ship—		
White's	"	12%

AXLES.

Common iron, long arm, sq. bed	5¼
Concord iron. long arm, sq. bed	6¼
Concord express, long arm, steel, square bed	6¼
Coach shape on above, ex. per. lb.	⅛
Short arms on above, extra per lb.	2
Welded axles on above, ex. per. lb	1½
Half Patent, steel, Nos. 7 to 14	70
Half Patent, steel, Nos. 19 to 22	70
Extra, coach shape, 1¼ & smaller per set	15
Extra, coach shape, 1¼ 1½, per. set	30
Extra, coach shape, l'g'r, per. set	$1 00
National Wrought Steel Tubular, Self-Oiling—	
Standard Farm (1 to 5) and Special Farm (A1 to A5) less than ten sets	20%
Over ten sets	25

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82	35%
Frary's	40%
P. S. & W.	30%

BELLOWS.

Blacksmiths	70%
Hand, 6½ in per doz.	$4 50
Molders', 10 in per doz.	9 00

BELLS.

COW.

Ordinary Goods	70&10%
High Grade	60&10%
Jersey	75&10%
Texas Star	50&10%

DOOR.

Abbe's Gong	45%
Barton Gong	55%
Home, R. & E. Mfg. Co.'s	55&10%
Lever and Pull, Sargent's	20&10&10%

HAND.

Hand Bells, Polished	60@60&10%
White Metal	55@55&10%
Nickel Plated	50@50&10%
Swiss	60%
Silver Chime	33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells lb.	2¼ to 2½c
Steel Alloy, Church and School	50&10&5@60%
Wilmot & Hobbs Mfg Co., Gongs	70%

BIT STOCK DRILLS.

Standard List 60@60&5%

BLOCKS

Common Wooden	70%
Eddy Steel Tackle Blocks	60%&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, list Jan. 30, 95	65%
Norway Iron, $3.00, list Oct. 7, '84	75&10%
Bolt Ends, list Jan. 30, '95	50&10%
Machine, list Sept. 20, '99	65&10%

DOOR AND SHUTTER.

Ives' Patent Door	60%
Wrought Barrel, Standard list	7 &10%
Wrought Flush	40&10%
Wrought Square, Standard list	65%

STOVE AND PLOW.

Plow	40&10%
Stove, list December 28, 1899	70to70&10%

TIRE

Common, list Dec. 28, '99	70%
Eagle Philadelphia	72½%
Norway	75%

BORING MACHINES.

Jenning upright without Augers..$2 00

BOXWOOD RULES.

No. 4	$11 00	per doz
" 12	16 00	"
" 18	6 00	"
" 26	11 00	"
" 27	13 00	"
" 29	4 50	"
" 66	10 00	"
" 66½	10 00	"
" 67	6 00	"

Boxwood	80&10%
Ivory	40&10%
Lufkin's Steel	50&10%

BRACES.

Barber's	50&19%
Common Ball, American	$1 50
Fray's Genuine Spofford's	60%
Fray's No. 307 to 322	40&5%
Fray's No. 508 to 522	50%

BRACKETS.

Cast Iron Plain	50&10%
Wrought Steel	70&10 @ 75%
Bradley's	75 @ 75&10%

BROILERS.

Wire Goods Co 75%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854	70%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848	70%
Bright Butts, Nos. 822, 822½, 823, 823½	70%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731	70%

CAGES—BIRD.

Enameled	40%
Brass 1200 series	33⅓%

CASTERS.

Bed	60&10&5%
Plate Casters	60&10&5%
Martin's Patent (Phoenix)	50&5%

CHAIN.

American Coil Chain, Less than Cask lots:

3-16	¼	5-16	⅜	7-16	½	9-16
8.40	6 30	5.25	4.35	4.20	4.10	4.05

⅝	¾	⅞ to 1
4.05	4.00	4.00c. per lb.

Less than Cask lots add 25c:

German Coil, list July 24, '97	60&10&10%
German Halter Chain, list July 24, '97	60&10&10%
Traces, Western Standard: 100 pair	
6½—6-3, Straight, with ring	$29 00
6½—6-2, Straight, with ring	30 00
6½—8-2, Straight, with ring	34 00
6½—10-2, Straight, with ring	37.50

Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.

Trace, Wagon and Fancy Chains Eastern list	50&10%
Jack Chain, lis July 10 '98	
Iron	60@60&.
Brass	60@60&10

Safety Chain.....70&5@70&10%
Gal, Pump Chain.....lb. 4¼@4½c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....70%
Covert Mfg, Co.:
Breast.....35&2%
Halter.....35&2%
Heel.....35&2%
Rein.....35&2%
Stallion.....35&2%
Oneida Community:
Eureka Coil & Halter40&10% new list
Niagara Coil and Halters40@10% "
Niagara Cow Ties..45&5@45&10&5%
Am, Coil and Halters..50&10&5@60%
Am. Cow Ties.....35&5@40&5%
Wire Goods Co.:
Dog Chain.....60&10%
Universal Dbl-Jointed Chain....50%

CHALK.

Blue.....per gross 60c
Red..... " 50c
White..... " 45c

CHALK LINES.

Chalk lines.....per doz. $2 50

CHISELS.

Mix..... } 70&5 to 70&10%
Witherby..... }

CHISELS.

Box.....20%
Tinners.....40%
Cold, per lb.. regular qual.....20%
Cold, per lb., special qual.....32%
Corner.....66⅔%
Firmer, American..... 20, 10&10%
Barton's.....20%
Butcher's.....40&10%
Mortice, Butcher's.....40&10%
Socket, Firmer.....70%
Framing.....70%
Turning, Barton's.....20%
Butcher's.....50%
Beveled.....20%

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers.....50&10&5%

CLEANERS.

Pot.....per doz $1 10

CLEAVERS.

Beatty's.....dis 40
White's..... " 15

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No 20..... " 13 20
No. 8..... " 10 80
H. Hotchkiss Toilet Clippers
No. 1.....per doz 9 60
No. 101..... " 10 80
No. 201..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93....25%
Parker's.....50&10%
Arcade.....60&10%

CORKSCREWS.

Howes..... 25 & 22%
Humason & Beckley..... 40 & 10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 40%
Williamson's Forged Worm 40%

DOG COLLARS.

Pope & Stevens' List:
Brass (full Assortment).....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%

DRILLS AND DRILL STOCK.

Common Blacksmith's Drill ..... $1 50@$1 60
Bench Drills, Stearns'.....5 50& 6 00
Blacksmith's Self-feeding, each, ...$5 00&$7 00
Breast, Millers Falls, each .$3 00 20%
Godell Automatic Drills,$12 00to$15 00

EGG BEATERS.

Standard Co.:
No. 5 Steel Handle Dover per gross.....$ 6 50
No. 10 Cast Handle Dover pr gr 8 00
No. 10 Steel H'ndle Dov'r pr gr 8 00
No. 15 Extra Heavy Steel Handle per gr..... 15 00
Rival per gr..... 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 6 50
No. 100 Regular Fam size pr gr 8 00
No. 102 Regular Family size tinned pr gr..... 9 50
No. 150 Large Fam size pr gr.. 15 00
No. 152 Large Family size tinned pr gr..... 17 00
Lyon's Standard size per doz.. 1 75
Wonder (S. S. & Co.) per gr.... 7 50

ENAMELED WARE.

Peerless (L. & G. Mfg. Co.).....Net
Royal (N. E. & S. Co.).....Net

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standard Metal Key.....25%
B. & L. B. Co.
Redlich's Wood Faucets.
Red Cedar..... } Net Prices.
Oak..... }
Cherry..... }
Cork Lined..... }
Metal Key..... }
Self Measuring:
Enterprise, per doz. $36 00.....40%
Cork Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.:
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key..40%
" " Boss Tin Key.....50%
" " Victor Metal Key..50&10%
" " Duplex Metal Key....60%
" " Diamond Lock.....40%
" " I X L Cork Lined....50%
" " Reliable " " ..50&10%
" " Common " " 70%
" " Chicago " " 60%
" " O K " " 50%
" " Perfection Cedar.....40%
Star.....60@60&5%
Star, Metal Plug new list... 40@40&5%
Lockport, Metal Plug, reduced list.....60&5%
McKenna, Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞ inch.....35%
Self Measuring:
Enterprise, per doz $36.00.....40%
Lane's, per doz. $36.00.....40&10%
National Measuring, per doz $36.00.....40%

FILES—Domestic.

New List, Nov. 1, '99:
Black Diamond.....70&10%
Disston's.....75& 5%

Imported.

Stubs list.....5%

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&5%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....70%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size...65%
3 Tine Hay Forks, Std. Size....65&10%
Four Tine Hay Fork, Std. Size 66⅔%
Socket Four Tine Hay Forks..66⅔&5%
Socket Four Tine Manure Forks...70%
Socket Four Tine Spading Forks .....70&5&5&2½%
Three Tine Hay Header and Baler Forks.....67½&2½%
Four Tine Hay Header and Baler Forks.....66⅔%
Grain or Barley Forks.....70&10%
Four Tine Manure Forks.....70%
Five & Six Tine Manure Forks.....70%
Spading Forks.....70&10%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75&5%
Meadow and R. I. Hoes...75&5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes.....75&10%
Planter Hoes, Regular Pattern.70&20%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin. Shank Cot. Hoes 75&12½%
Cotton Chopper Hoes....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70@70&10%
Toy Ladies' and Boys' Hoes.....70&10to70&10&5%
Weeding Hoes and Rakes...70@70&5%
Potato Hooks.....76&6%
Hop Hooks.....60&10&2½%
Steel Garden Rakes.....70&10%
Steel Garden Rakes Stamped blank 70%
Turf Edgers.....60&5%
Steel Road Rakes.....65%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.....65%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&10&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....60%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc.....60%
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS CUTTERS

Woodward.....33⅓&10%
Red Devil.....33⅓&10%

GLUE POTS.

Tinned.....30%
Enameled.....35%

GLUE.

Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List

GREASE, AXLE.

Fraser's.....Ne
Baum's Castorine.....Net

GRINDSTONE FIXTURES.

Stowell's..... Net
Reading Hardware Co.....Net

HAMMERS.

"Artisan's Choice." A. E. Nail.40&10%
Engineer's and B. S. Hand.....60%
Machinist's Hammers..50&10&5%to60%
Bell Face, A. E. Nail.....50
S. & H. Cos. No. 20....per gross. 5 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

No. 0.....per doz $0 90 } Dis. 25
No. 1..... " 1 00
No. 2..... " 1 18
No. 3..... " 1 35
No. 4..... " 1 50
Bronze iron drop lat., per doz net $1 10
Japanned store door.....net 1 10
Barn door No. 5..... " 1 35
Chest and lift.....dis 50
Wood—
Saw and plane..... " 45
Hammer, hatchet, axe, etc.... " 45
Brad awl.....per gro. 45
Hickory firmer chisel..... } 25
Apple firmer chisel..... }
Socket firmer chisel..... }
Socket framing chisel..... }
File.....per gro. $2 80
Auger, assorted..... 5 00
Hoe, rake, shovel, etc..... 50
Cross Cut Saw—
Atkins' No. 1.....per pair 28
" No. 3..... " 18
" No. 6..... " 12
Triumph..... " 12
Common loop..... " 10

HANGERS.

Chicago Spring Butt Co.:
Friction.....25%
Oscillating.....25%
Big Twin.....25%
Cronk Hanger Co.:
Loose Axle.....60%
Roller Bearing.....60&10%
Lane Bros.:
Parlor, Ball Bearing.....$4.00
Parlor, Standard.....3.25
Parlor, New Model.....2.75
Parlor, New Champion.....2.40
Barn Door, Standard.....60&10%
Covered.....50&10&10&5%
Special.....60&10%
Lawrence Bros.:
Advance.....60%
Cleveland.....60&10%
Crown.....60%
New York.....60%
Peerless.....60&10%
Sterling.....60%
McKinney Mfg. Co.:
No. 2, Standard, $18.....60&10%
No. 1, Special, $13.....60&10%
Stowell Mfg. and Foundry Co.:
Acme Parlor Ball Bearing.....40%
Atlas.....50&10%
Badger Barn Door.....50%
Baggage Car Door.....50%
Climax Anti-Friction.....50%
Elevator.....40%
Express.....50%
Interstate.....50&10%
Lundy Parlor Door.....50%
Matchless.....50&10%
Nansen.....60&10%
Stowell Parlor Door.....50%
Railroad.....50%
Street Car Door.....50%
Steel, Nos. 200, 404, 500.....40&15%
Wild West.....50%
Zenith for Wood Track.....50%
Taylor & Boggis Foundry Co.:
Kidder's.....50@50&10%
Wilcox Mfg. Co:
Bike Roller Bearing.....60&10%
C. J. Roller Bearing.....60&10%
Cycle Ball Bearing.....50%
Dwarf Ball Bearing.....40%
Ives, Wood Track.....60&10%
L. T Roller Bearing.....60&10&5%
New Era Roller Bearing.....50&10%
O. K. Roller Bearing.....60&10&5%
Prindle, Wood Track.....60%
Richards' Wood Track.....60%
Richards' Steel Track.....50&10%
Spencer Roller Bearing.....60&10%
Tandems, Nos. 1 and 2.....60%
Underwriters' Roller Bearing....40%
Wilcox Auditorium Ball Bearing 20%
Wilcox Barn Trolley No. 123....40%
Wilcox Fire Trolley, Roller Bearing.....30%
Wilcox Le Roy Noiseless Ball Bearing.....40%
Wilcox New Century.. 50&10&10%
Wilcox Trolley Ball Bearing.....40%

HATCHETS.

American Axe and Tool Co..... }
Blood's..... }
Hunt's..... }
Hurd's..... } 40&10%to40&10&5%
Mann's..... }
Underhill's..... }
C. Hammond & Son.. }
Fayette R. Plumb.... }

HAY AND STRAW KNIVES.

Lightning.....$6 50&$7 00

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind: (Victor; National; 1868 O.P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo.)
No.....1 3 5
Doz pair.....$0.75 1.45 2.90
Mortise Shutter: (L. & P., O. S., Dixie. &c.)
No.....1 1½ 2 2½
Doz. pair.....$0.60 55 52 45
Mortise Reversible Shutter, (Buffalo, &c.)
No.....1 1½ 2
Doz. pair.....$0.65 .60 .55
Parker.....70@75%
North's Automatic Blind Fixtures, No 2, for Wood $9.00; No. 3, for Brick $11.50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's. Nos. 11 & 13.....70&10%
Wrightsvile H'dware Co.:
O. S., Lull & Porter.....80&2½%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....75&10%
Stenger's Positive Loeking, Nos 1 & 3.....70&10&5%
Shepard's Noiseless, Nos. 60, 65, 55 70&10%
Niagara, Gravity Locking, Nos. 1, 3 & 5.....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n, Nos 1, 3 & 5.....75&7½%
Buff. Gravity Lock., 1, 3, 5..75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No 75 75&7½%
Steamboat Gravity Locking, No 10 5&7½%
Pioneer, Nos 060, 45 & 5½..75&7½%
Empire, Nos 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....60&10%
Stanley's Steel Gravity Blind Hinges, per doz. sets $1.30.....30&10%

GATE.

Clark's or Shepard's—Doz. sets:
No.....1 2
Hinges with Latches $1.10 2.50

Hinges only..... 1.80 1.90 2.90
Latches only..... 65 65 95
New England:
With Latch.....doz....@$1.55
Without Latch.....doz....@$1.25
Reversible Self-Closing:
With Latch.....doz....@$1.80
Without Latch.....doz ...@$1.45
Western:
With Latch.....doz. $1.40@1.75
Without Latch.....doz. $0.95@1.30
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2... 65&2½%
Shepard's or Clark's, No. 3....55&5%

SPRING

Holdback, Cast Iron, gros. $8.00@8.25
Non-Holdback, Cast Iron.... gro. $6.75@7.25
Extra 10% often given on most of these hinges.
J. Bardsley:
Bardsley's Patent Checking 15%
Bommer Bros.:
Bommer Spring Hinges 40%
Bommer Ball Bear. Floor Hinges.40%
Chicago Spring Butt Co.:
Chicago.....20%
Floor Hinge.....40%
Garden City Engine House.....20%
Keene's Saloon Door 20%
Triple End.....40c
Hoffman Hinge & Foundry Co.;
No. 70 & 80 Holdback Detachable $8.50
Lawson Mfg. Co.:
Matchless.....30%
Matchles Pivot..... .....35%
Payson Mfg. Co.:
Oblique.....50&10%
Stover Mfg. Co.:
Ideal, No. 16, Detachable, per gr. $12.50
Ideal, No. 4 .....per gr. $9.00
New Idea No 1.....per gr. $9.00
New Idea, Double Acting.....45%

WROUGHT IRON

Strapand T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....75%
Heavy Strap Hinges.....80%
Light T Hinges.....70%
Heavy T Hinges.....66⅔%
Extra Heavy Hinges.....75&10%
Hinge Hasps..... .....60%
Cor, Heavy Strap.....80%
Cor, Ex. Heavy T.....75&10%
Screw Hook and Strap:
6 to 12 in.....lb. 3½c
14 to 20 in.....lb. 3¾c
22 to 36 in.....lb. 3 c
Screw Hook and Eye:
¾ to 1 inch.....lb. 5c
⅜-inch.....lb. 6c
½-inch..... .....lb. 7c

MISCELLANEOUS—

Hoffman's Steel Spring Butt Hinges 40&10%
Hoffman's Offset Refrigerator Hinges 40&10%

HOLLOWWARE.

Stove Hollowware Ground.....50%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 299 ....&28c

BUSH HOOK.

No. 1, Underhill $9 00
Bird cage 40%
Clothes line .....60&10&10%
Grapling.....50%
Ceiling.....60&5%
Coat and Hat ..... 60&5%
Harness ....60&10&10%

WROUGHT IRON.

Cotton, V. & B.....25%
Tassel and picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible..... 45%
Brass .....net $2 00%
Hooks and eyes, bright wire....80&10%
Brass.....60&10&5
Fish hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard 70%
Extra 60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner.....60%
Extra..... 50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50.....70c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65..... 95c

KNIVES.

Standard List.....70&5%
Adjustable Handle.....25@33⅓%
Watrous.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Birch Rubber tip ℔ gro.....$1 40
Door, Mineral.....℔ doz. 65c
Door, Por. Jap'd.....℔ doz. 75c

LADLES.

Reading.....Net
Sargent's.....Net

LANTERNS—TUBULAR.

No. 0 Berger's "Bail Lift," per doz. $9 50.....40&10%
No. 0, Berger's "Bail Lift," Galvanized, per doz. $10 50...40&10%
No. 2 Berger's "Bail Lift," per doz. $13 00.....40&10%
No. 2 Berger's "Cold Blast," per doz. $16 00.....40&10%
No. 0 Berger's Dash Board, Japaned, Plain Globe, per doz. $13 00.....40&10%
No. 0, Berger's Dash Board, Japanned, Bull's Eye, per doz. $13 50 .....40&10%
No. 2, Berger's Dash Board, Japanned, Plain Globe, per doz. $17 00 .....40&10%
No. 2, Berger's Dash Board, Japanned, Bull's Eye, per doz. $17 50.....40&10%

BULL'S EYE POLICE.

2¼-in. flash light, per doz. $3 50@$3 75
3-in. flash light, per doz. ..4 00@ 4 25
4¾-in. regular, per doz.....3 50
3-in. regular, per doz.....3 57

LEMON SQUEEZERS.

Wood, Common, per gr., No. 0 $5 00; No. 1 $6 50; No. 2 $10 00.

Wood, Porcelain lined, No. 1.....per doz. $3 00@$3 50
Tinned Iron.....per doz. 1 25
Iron, Porcelain Lined, per doz.....3 25@ 3 50
Jenning's Star...per doz. 1 85@ 1 90
King.....per doz.

LOCKS.

Plate 33⅓%
Slaymaker-Barry Co..... 30&35%
Sargent & Co..... 40, 40&10%
Yale flat key.....net
L. & C, round key.....30&10%
Reading Harding Co.....40%
L. & C. flat key latches .....33&10%
Stearns' sliding door....net $15 00

CABINET.

Eagle.....33⅓%
Yale.....33⅓%
Eagle and Corbin trunk.....25%

PADLOCKS.

Wilcock's..... 70%
M. W. & Co..... 70%
Russell & Irwin 70%
Slaymaker Barry Co..... 40%
Bohannon's brass..... 30%
Yale.....net
Eagle 33⅓%
Eureka, Eagle Lock Co 40%
Corbin.....33⅓&10%

MALLETS.

Fiber Head Sterns.....30&10%
Hickory..... .....40%
Lignumvitæ .....40&40&10%
Tinners'. Hickory and Applewood, per doz. .....75c@$1 50

MATTOCKS.

Regular list.....65&5%

MOWERS, LAWN.

Cheap.....all sizes.....2 25
Good.....all sizes, $2 50@$2 75
10 12 14 16-in
High Grade....4.25 4.50 4.75 5.00
Pennsylvania and Continental .....Net price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T.....70&10%
Style A, (all steel).....60&10%
Style E, Low Wheel.....60&10%
Style E., High Wheel.....70&10&5%
Drexel, low list.....60%
Gold Coins, low list.....60%
Dewey's.....Net prices
All Day .....Net prices

NAIL PULLERS.

Giant, No. 1..... per doz., $18 00. 40%
" No. 1½.... " 16 00. 40%
" No. 2..... 15 00. 40%
Ajax.....Net prices.
Diamond B.....per doz., $ 9 00
Pipe.....per doz., 12 00
Eureka.....per doz., 10 00

NAIL SETS.

Octagon..... per gross, $8 00@$9 00
Round..... per gross, 8 00@ 9 00
Cannon's Diamond Point, per gross .....$9 00 Net

NUT CRACKERS.

Sargent's No. 12.....$1 50

OILERS.

Tin or Steel.....50%
Zinc..... 50&10to50,10&5%
Malleable Hammers 35%
Malleable Hammers, old pat., same list .....Net

PADLOCKS.

Sargent Dog Collar 70%
Sargent Wrought Steel and Brass..80%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws..... 25
Blacksmiths'..... 40
P. S. & W..... 25

PIPE.

WROUGHT.

List February, 1898.
1¼ and under, plain.....50&2½
1½ and under, gal.....50&2½
1½ and over, plain..... 50&2½
1½ and over, gal..... 50&2½
Boiler tubes..... 50&2½

PLANES.

Stanley Planes, No. 100.....$.30 each
" " No. 130..... .25 each

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers 40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75 to 75&5%
Disston's.....60%

POACHERS.

Buffalo Steam Egg No. 1, per doz. $7 20. 50%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.50; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz.....$ 2 25
U. S. Liquid, 8 oz. cans, per doz. $1.25; per gr..... 12 00
Barkeepers' Friend Metal Polish, per doz. $1.75, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid 5 lb..... 16 00

POLISH—STOVE.

Dixon's .....per gross, $5 75
Dixon's Plumbago.....per lb 6½c

POPPERS, CORN.

Round or Square, 1 qt....per doz., 65%
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 00

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger....40%
Eureka Perfection Post Hole Digger, per doz.....$10 00
Atlas, per doz..... .... 8 25

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each.....75c
Rifle, 1 lb each..... ....$1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6¼ lb kegs..... ..... 1 25
Rifle, 12½ lb kegs..... 2 25
Rifle, 25 lb kegs..... ..... 4 00

PRESSES—FRUIT AND JELLY

Enterprise Manufacturing Co.....25%

PULLEYS.

Hay Fork, Svl, Sd Eye, doz $1 75@$2 75
Hot House, Awning, etc.....50%
Japanned Clothes Line.....50%
Japanned Screw.....50&10%
Japanned Side..... .....50&10%
Sash (Auger Mortise):
Common Sense, 1¾ in ..per doz. 19c
Common Sense, 2 in .. per doz. 20c
Empire.... ....17c.; 2 in.. 22c

SASH PULLEYS.

Fox No. 3 or No. 7, 2½ wheel, ...25c per doz
Fox No. 9, 1¾ wheel.....20c per doz
Extra for plated Finish... 25c per doz
Extra for Anti-Friction Bronze Bushing.....10c per doz

RAZORS.

Fox Razors No. 42....per doz. $20
" " " 44.... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus..... " 16 00

REGISTERS.

List Sept. 1, 1901.

All on new list.

Black Japanned Registers, Ventilators, Faces and Borders, ...50&10to60%
White Japanned Registers, Ventilators and Faces....50&10to60%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze .....40&10%
Nickelplated..... .....50&10%
Electro-Plated in Brass, Bronze, Copper or Oxidized Silver 40&10%
White Porcelain..... 40&10%
Solid Brass and Bronze Metal .... 40&10%

RIVETS AND BURRS.

Coppered Iron Rivets.....60&5%
Tinners Rivets.....60&5%

ROOFING SUPPLIES.

EAVE TROUGH.

"Perfection" Galvanized Eave Trough.....75&10%
"Eclipse" Galvanized Eave Trough.....75&10%
Double Bead Galvanized Slip Joint Eave Trough.....75&10%
Double Bead Galvanized Lap Joint Eave Trough.....75&10%

GUTTERS.

Roof Gutters, Galvanized.....7: &10%

PIPE.

Plain Round Pipe, Galvanized, Nested.....60&20&2½%
Plain Round Pipe, Galvanized, Unnested.....60&20%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%

HOOKS.

Flashing Hooks.....10%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....60%
Acme Galv..... 10&10%
Acme Tin.....60&10%
Centennial Tin.....20%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....10%
Eave Trough Hangers, Single and Double Bead, Wire.....

ELBOWS.

One Piece Conductor Elbows, Galvanized, Corrugated..... 60%
Adjustable Elbows, Tin. 50%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete.....$1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

Per lb
Manilla, 7-16 inch diameter and larger.....9½@10c " "
Manila, ⅜ in.....9¾@9¾c " "
Manila, ¼ and 5-16 in..... 10½@10½c "
Sisal 7-16 in. and larger 7@7½c "
Sisal, ⅜ inch .....8@8¾c "
Sisal, ¼ and 5-16 in.....8@8¾c "
Sisal, Medium Lath Yarn .... 9@9¼c.

SASH CORD.

Braided, Drab.....lb 25c
Braided, White common.....lb 19c
Cable Laid Italian ....lb, A 18c, B 16c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton .....lb 17@18c
Massachusetts, white.....lb 22½c
Massachusetts, drab.....lb 20½c
Eddystone Braided, cotton ....lb 19c
Harmony Cable Laid Italian....lb 18c
Ossawan Mills:
Crown, Solid Braided, white ..lb 18c
Braided, Giant, white.....lb 17c
Peerless:
Cable Laid Italian.....16c
Cable Laid Russian.....14c
Cable Laid India.....12c
Braided India.....18c
Phœnix, white.....19c
Samson:
Braided, Drab Cotton .....lb 32¼c
Braided Italian Hemp.....lb 32¼c
Braided, Linen.....lb 49c
Braided, White Cotton, Spot.lb.28½c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@60&5%
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SAWS.

Atkins' Circular.....Net
Atkins' Band.....Net
Atkins' Cross Cuts.....Net
Atkins' Mulay, Mill and Drag.....40%
Atkins' One-Man Saw.....Net
Atkins' Circular Solid and Inserted Tooth.....50%
Atkins' Bands over 2 in. wide.....60%
Atkins' Bands under 2 in. wide.57&10%
Atkins' Mill, Mulay and Drag.... 50%
Atkins' Cross Cuts.....40%
Atkins' One Man.....40&10%
Atkins' Narrow Cross Cuts.....40%
Atkins' Wood Saws and Blades.40&10%
Atkins' Hand Saws.....40%
Atkins' Compass Saws.....50%
Atkins' Butcher Saws.....40&10%
Disston Circular Solid and Inserted Tooth.....50%
Disston Cross Cuts.....Net
Disston Narrow Cross Cuts.....Net
Disston, Mulay, Mill and Drag....40%
Disston Framed Woodsaws.....35%
Disston Woodsaw Blades.....40%
Disston Woodsaw Rods.....25%
Disston Handsaws, Nos. 12, 99, 9, 16, D100, D8, 120, 76, 77, 8.....25%
Disston Hand Saws, Nos. 7, 3.....30%
Disston Compass, Keyhole, etc....25%
Disston Butcher Saws and Blades.35%

SAW FILERS

Stearns'.....25%
Silent saw.....35%
Sargent's.....60&30%
Reading.....37½%

SCALES.

Family, Turnbull's .....30@30&10%
Hatch, Counter:
Platform, 4 lb. by ½ oz..doz...$5.75
2 Platforms, 8 lb. by ½ oz. doz $16 00
Union Platform, Plain.....$1.75@$2.00
Union Platform, Striped.. $1.85@$2 15
Chatillon's Eureka.....25%
Chattilon's Favorite.....40%
Chatillon's Grocers' Trip Scales ..50%
Pelouze Scales, Household Counter, Confect. Postal, Ice, &c.....50%
"The Standard" Portables.....45%
The Standard" R. R. and Wagon 50%

SCREWS.

BENCH AND HAND.

Bench, Iron.....per doz. 60%
Bench, Wood, Beech..per doz. $3 50
Hand, Wood.....80%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point, list Sept. 20, 1899.....75@75&10%
Hand Rail, list Jan. 1, 1871.....75%

JACK SCREWS.

ack Screws.....70%

WOOD.

MANUFACTURERS' CIRCULAR PRICES

New List.
Flat Head Iron.....87½%
Round and Oval Head Iron.....85%
Flat Head Brass.....85%
Round and Oval Head Brass.....82½%
Flat Head Japanned.....82½%

SCYTHES.

Blood's.....$ 8 50
Clover..... 8 50
Grain Clipper, Blood's..... 10 50
Hollow Clip..... 8 50
Silver Clip 8 50
Honest Dutchman..... 8 50

SHEARS.

	7	8	9 in.
Best.....	$16.00	$18.00	$20.00 gro.
Good.....	13.00	15.00	17.00 gro.
Cheap....	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap.....70@70&10%
" Nickel.....60@60&10%
Fair qual. Jap.....80@80&5%
" Nickel .....75@75&10%
Tailors' Shears.....40@40&10%
Acme Cast Shears.....40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge 50%
Wilkinson's Sheep.....1900 list, 50%

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, pr sq.....$4 25
Eastlake I. C. Tin Shingles, galvanized, pr square..... ..$6 00
Octagon Fluted I. C. Tin Shingles, painted, per square..$5 50
Octagon Fluted I. C. Tin Shingles, galvanized. pr sq....$7 25

SIFTERS.

Eclipse.....per gr $15 00
Hunter's Genuine.....per gr $16 00

SKATE SHARPENERS.

Skate Sharp., Eureka, per doz $2 00 net
Washer Cutters, Woodard's. per doz.....$2 50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x 8 } $3 50 pr sq. — 20x10, 18x10, 18x 9, 16x 8 } $4 50 pr sq
22x11, 20x12, 18x12, 16x12, 14x10, 14x 8, 14x 7 } $3 75 per sq. — 16x10, 16x 9 } $4 25 pr sq; 12x 7, 12x 6 } $3 25 pr sq

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12 } $3 00 pr sq. — 20x10, 18x10, 18x 9 } $3 50 pr sq
22x11, 20x12, 14x 8, 14x 7 } $3 25 pr sq. — 16x10, 16x 8 }

SNAPS.

German .....40@40&10%
Covert Mfg. Co.:
Derby.....35&2%
High Grade .....45@3%
Jockey.....40&2%
Trojan .....45&2%
Yankee.....35&2%
Yankee, Roller.....30&2%
Covert's Saddlery Works:
Banner.....60&10%
Crown.....60&10%
Model .....60&10%
Triumph .....60&10%
W. & E. T. Fitch Co.:
Bristol .....40&10%
Empire.....50&5%
German 40%
National .....50&5%
Perfect.....45%
Clipper.....50&5%
Champion.....40%
Security.....40%
Victor.....60&5%
Oneida Community:
Solid Steel.....65@65&10%
Solid Swivel.....65&10@65&10&10%
Sargent's Patent Guarded...66⅔&10%

SOLDERING FURNACES.

No. 3 Gems tin reservoir.....$6 00
No. 6 Gems copper reservoir..... 8 50
Gem Gas Pots..... 3 25
Clayton & Lambert No. 1 Fire-Pot 6 00
Clayton & Lambert's Special Fire-Pot..... 4 50

SPRINGS, DOOR.

Star (Coll) list Oct. '95.....net
Torrey's Rod 39 in. Per doz. .....$1 20@$1 25
Warner's No. 1.....net 75

SQUARES.

Steel and iron..... .....70&10%
Nickel plated.....65, 10&5%
Try squares and bevels.....65, 10&5%
Disston's.....45%
Bemis and Call, pocket.....30%
Winterbottom's try & mitre..... 30%
Starrett's.....25%

STAPLES.

Barbed Blind .....per lb., 10c
Poultry Netting.....per lb., 5c

STAPLE PULLERS.

Russell Staple Pullers..per doz., $9 00

STOVE PUTTY.

1, 10 & 25 pound Cans.....per lb., 5c
500 pound Kegs.....per lb., 4½c

STROPS.

RAZOR.

Emerson.....60 to 60&5%
Imitation.....20, 10&5%
Torrey's.....20%
Tower & Lamont.....per doz $4 00
04 Combination.....per doz 3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American.....90&40%
American Cut Tacks.....90&10%
Swedes Iron Tacks.....90&40%
Swedes Upholsterers' Tacks.....90&40%
Gimp Tacks .....90&40%
Lace Tacks .....90&40%
Trimmers' Tacks.....90&20%
Looking Glass Tacks .....70&10%
Bill Posters' and Railroad Tack90&40%
Hungarian Nails.....80&5%
Common and Patent Brads....80&10%
Trunk and Clout Nails.....80%

TRAPS.

GAME.

Oneida Pattern .....75&5@75&10&5%
Newhouse .....45@50%
Hawley & Norton.....65@5&70%
Victor (Oneida Pattern) .. 75@75&10%
Star (Blake Pattern) ....65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes 10c
Mouse, Round or Square Wire, doz.....$0.85@1.00
American Pattern French Rat and Mouse Traps—
No. 1, Detroit Marty Pattern, per doz. $4.50; in ½ gro. lots, per doz $4.00
No. 2, Detroit Marty Pattern, per doz, $3.25; in ½ gro. lots, per doz.....$3.00
Detroit Marty Pattern Mouse, per doz. $2.00; in ½ gro. lots, per doz.....$1.75
Diamond Joe Mouse Traps, per doz.....60c
Diamond Joe Rat Traps, per doz.$1.00
Marty French Rat and Mouse Traps. (Genuine:)

TWINE.

Flax Twine—

	BC	B
No. 9, ¼ and ½ lb. Balls...	20c	24c
No, 12, ¼ and ½ lb. Balls ...	17c	20c
No, 18, ¼ and ½ lb. Balls ...	14c	17c
No. 24, ¼ and ½ lb. Balls....	14c	17c
No. 36, ¼ and ½ lb. Balls...	13c	16c

Chalk Line, Cotton, ½ lb. Balls18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
2-Ply Hemp, 1½ lb. Balls (Spring Twine) .....12@15c
3-Ply Hemp, 1 lb. Balls.....12@15c
3-Ply Hemp, 1½ lb. Balls .....
2, 3, 4 and 5-Ply Jute, ½ lb. Balls....8c
Mason Line Linen, ½ lb. Balls 45c
No. 264 Mattress, ¼ and ½ lb. Balls 34c
Wool.....5½@6c

VISES.

Solid boxes.....40%
Parker's.....20%
Howard's.....35%
Bonney's.....35%
Trenton.....40%
Stearns'.....50%
Cheney's.....12½%
Massey's.....25%
Parallel.....30&5%
Holland's.....35%
Stevens'.....25%
Miller's Falls.....40%
Prentiss.....20%
No. 1, Rat each $1.12½; per doz. $12.00
No. 3, Rat, per doz. $6.00; case of 50.....$5.25 doz.
No. 3½, Rat, per doz $4.75; case of 72.....$4.25 doz.
No. 4, Mouse, per doz. $3.50; case of 72.....$2.75 doz.
No. 5, Mouse, per doz. $2.75, case of 72.....$2.25 doz.
Schuyler's Rat Killer, No. 1, per gro. $30.00; No. 2, per gro. $30.00; Mouse, No. 3, $18.00.....50%

FLY.

Balloon, Globe or Acme..... doz. $1.15@1.25; gro. ... $10.50@11.00
Harper, Champion or Paragon.... doz. $1.25@1.40; gro....$12.00@12.50

TROWELS.

Disston Brick and Pointing 30%
Disston Plastering.....25%
Disston "Standard Brand" and Garden Trowels.....40%
Never-Break Steel Garden Trowels.....gro. $7.00
Peace's Plastering.....30%
Rose Brick and Plastering.....25&5%
Woodrough & McParlin Pl'st'ring.

WASHERS.

LEATHER, AXLE—

Solid ... .80&10&10@85%
Patent.....85&10@85&20%
Coil: ⅜ 1 1⅛ 1¼ inch.
18c 19c 20c 23c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5.20 $4 30 $3.00 $2.80 $2.60
In lots less than one keg add ¼c per lb; 5-lb boxes add ½c to list.

CAST WASHERS.

Over ½ inch, barrel lots per lb .....1½@1¾c

WELL WHEELS.

8-in., $2.20.....10-in., $2.60
12-in., $3.25.....14-in., $3.25

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@72½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36.....75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9, ...70@70&10%
Cop'd and Galv., 10 to 18,.....70&10@70&10&5%
Cop'd and Galv., 19 to 26.....75&7½@75&10%
Cop'd and Galv., 27 to 36,.....75&10@75&10&5%
Tinned, 6 to 14.....75@75&5%
Tinned, 15 to 18 .....70&5@70&10%
Tinned. 19 to 26.....70@70&5%
Tinned, 27 to 36.....65&10@70%
Annealed Wire on Spools.....70&5@70&10%
Brass and Copper Wire on Spools .....60&5@60&10%
Brass, list Feb. 26, '96.....25%
Copper, list Feb. 26, '96.....15%
Cast Steel Wire.....50%
Stubs' Steel Wire, $6.00 to £.....40%

BRIGHT WIRE GOODS.

List April 1, 1901.....85&20 to 85%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting.....80&10%
Ptd Screen Cloth per 100 ft not settled.
Light Hardware Grade:
2-8 Mesh, Plain (8c list) sq ft... 1¼c
2-8 Mesh, Galv. (8c list) sq ft....2½c

WRENCHES.

Agricultural.....70&10%
Case lots.....75&10%
Acme.....60&5%
Baxter's S.....60&10%
Bull Dog.....70%
Coe's Genuine.....40&10&5%
Coe's "Mechanic's"..40&10&10&5&5%
Alligator.....60&10&10%
Bemis & Call's:
Adjustable S.....35&5%
Adjustable S Pipe.....40%
Briggs' Pattern.....30&10%
Combination Black.....40&5%
Combination Bright.....40%
Cylinder or Gas Pipe.....55%
Extra Heavy.....45%
Merrick's Pattern.....50%
No. 3 Pipe, Bright.....55%
Bindley Automatic.....30%
Boardman's.....32½%
Donohue's Engineer.....40&10%
Eagle.....50&10%
Gem Pocket.....30%
Hercules.....70%
Knife Handle, Machinists' (W & B.): 0&10%
Case lots.....50&5%
Less than case lots.....6%
Improved Pipe (W. & B.).....50&10
Solid Handles, P. S. & W.....&10 &
Stevenson..... 5%

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS.—H. W. T. JENNER, Patent attorney and mechanical expert, 608 F street, Washington, D. C. Established 1883. I make an examination free of charge and report if a patent can be had and exactly how much it will cost. Send for circular. Member of Patent Law Association.

PATENTS HUBERT E. PECK, 628 F St., N. W. Washington, D. C. Consulting Expert in Patent Causes, U.S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale or Exchange—First-class hardware business in best Northwestern Iowa County seat town. Stock and fixtures will invoice $6,000 to $8,000. Good established business and the leading store in town. Would trade for good 160 acres of Northwestern Iowa or Minnesota land. Cash preferred; best of reasons for wishing to sell. Write at once as this will not be open long. Address "Box O. L.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 13

Wanted—A partner in established hardware stove and tinware business. Nice stock; good trade; best county in the state; good town; population about 5,000. For particulars, address 110 E. 22nd St., Rushville, Ind. 13

Wanted—A good paying hardware and stove business. In good town or small city. Must be cheap for spot cash. Address with particulars. Box 55, Deepwater, Mo. 13

For Sale—Tin shop and small stock of hardware in a good dairy country: with or without tools. D. A. Chesley, Poysippi, Wis. 13

For Sale—Hotel property in a good paying locality; good reasons for selling. Address Box 47, Huntley, Mion. 12

For Rent—Hardware store building, including shelving, counters, etc., in best city in North Dakota. Population, 3,500; only two hardware stocks in the town. This is a "snap" Address "Snap," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12

For Sale—First-class stock of hardware, stoves and tinware, in a good, live town of 500. Good reasons for selling. Address, Lock Box 42, Ashton, Iowa. 12

Wanted—Small stock of hardware; some near western town. Address J. A. Denkman, Bennett, Iowa. 12

TINNERS' TOOLS.

For Sale—Set of Tinner's Tools; second-hand but in good condition, for list and prices of same, address Wm Simpson, Chippewa Falls, Wis. 14

For Sale—A cone former that will form a 14 in. cone, made by Niagara Tool Co.; also, 800 4-in. cream can gauges. For Further information, address E. G. Coe, Sparta, O. 14

For sale cheap, or will trade for power press, one No. 5 Stiles & Parker foot power press with an opening of 14 x 20 inches. This is a very good press for tinware, elbow or furnace shops; is in first-class condition. Address, M. Schrayer's Sons & Co., 49 Blue Island Av. 13

For Sale—Set of tinners' tools including squaring shears and all tools suitable to do work that would come into a shop in a place of 10,000 to 15,000 inhabitants. H. L. McNamara, Janesville, Wis. 13

Wanted—A second hand Crimping machine to crimp galvanized iron; want same to be in pretty good condition. H. Danz, Green Bay, Wis. 12

For Sale—Tinning and Plumbing Department of good hardware doing good business; a rare chance for a good man. Address "Chance Sale," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. 12

For Sale—One Peck, Stow & Wilcox double Seamer, a new machine, only been used about one year in all. For price enquire at J. G. Widmann, Wanzeka, Wis. 11

HELP WANTED.

Wanted—At once; First Class Tinner who thoroughly understands his business. Good wages and a steady job to the right man. C. S. Sheerin, Marshfield, Wis. 14

Wanted—A first class salesman; for Iowa, must be sober, and experienced in the stove line and acquainted with the Iowa trade. Address "Box Ex" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 14

Wanted—First Class Cornice Makers, at the Galesburg Cornice Works, Galesburg, Ill. 14

Help Wanted—A good man for general tin work. Steady work by the year to a reliable, competent man. We have good tools and a good brick shop. Address Tharp & Klise, Clarinda, Iowa. 14

Wanted—Two good steady tinners and furnace men; steady employment, good wages. J. M. Whitlatch, Charleroi, Pa. 14

Wanted—At once; a good, sober, strictly first class tinner; one capable charge of men: steady employment to right man. John H. Bowers, Charleroi, Pa. 14

Wanted—A good, steady tinner and slate roofer; steady employment. Dan Guiser, Jr., Coal Center, Pa. 14

Wanted—First class tinners, cornice makers and sheet metal workers. Give references, experience and wages expected. Write to St. Paul Roofing, Cornice and Ornament Co., St. Paul. 14

Wanted—A first class tinner and furnace man; good wages and work the year around; must be a hustler; no "boozers" need apply; give age and references. Address "Round," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 14

Tinner Wanted—Must be sober. W. D. Miller, Yates City, Ill. 14

Wanted—At once; good tinner. Wire or write M. R. O'Neill, wholesale and retail hardware, Fargo, N. D. 14

Wanted—Two first class stove pattern makers and one first class carver; steady employment and good wages to good, reliable men; shop one of the best equipped in the country; address: Richmond Pattern Works, Richmond, Va. 14

Wanted—At once; a good, sober, strictly first-class tinner. One capable of doing inside and outside tin and galvanized iron work. Must be experienced in cornice and furnace work. Good wages to the right man. Knapp Hdw. Co., Mason City, Ia. 13

Tinners Wanted—Alfred Martin & Co., Rockford, Ill. 13

Tinners Wanted—Mertz & Mochel, Downers Grove, Ill. 13

Tinners Wanted—W. M. Forward & Co., Sycamore, Ill. 13

Wanted—At once; 6 tin roofers. Over 400 sq. to be put on. Inquire at State Fair Grounds Sprinfield, Illinois, or correspond with F. C. Muhl, Bloomington, Ill. 13

Wanted—Good, sober, industrious tinner. To work in a large reaper factory about nine months of the year. The other time do job work on your own account. I can furnish a small tin job shop complete for a small rental. Address 206 Lagonda Ave., Springfield, Ohio. 13

Wanted—A good tinner. Steady job. G. L. Miles, Grinnell, Ia. 13

Wanted—Tinner and sheet metal worker at once. Steady work at $2.50 per day of nine hours. Address Paducah Sheet Metal Wks., Paducah, Ky. 13

Wanted—At once; a good, first class tinner who can take my place in shop, can do in and outside work; must be sober and steady; prefer one who can speak German, good wages and steady job the year round to right man. Write me at once. A. S. Rice, Genoa Jct., Wis. 12

Wanted—At once, Good Tinner and Furnace Man. Geo. W. Stewart, Washington, Ia. 12

Wanted—At once, a good young man, that is a first class tinner and understands plumbing and furnace work, will pay good wages and give steady work the year around. Want a man at once. Maher & Son, Preston, Ia. 12

WANTED—Man familiar with stove trade to handle Stove Repairs as a side line on a salary basis. Box Z, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12

Tinner Wanted—For general job work; one who has had some experience in plumbing. State wages expected, Address, Fred Thomas, Menominee Falls, Wisconsin. 12

Wanted—Tinner, who can clerk in store and keep stock. None but hustler need apply; steady job; state wages. Write at once. Greig Bros., Mitchell, Iowa. 12

Wanted—An experienced stove salesman, for city and country. Address "C & C.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12

SITUATIONS WANTED.

Wanted—An A1 tinner of long experience, who is capable of taking full charge of any-size tin shop. Good pattern cutter and estimator and a total abstainer. State best wages you could afford to pay such a man. Steady work the year round Address "Furnace Expert," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 13

Situation Wanted—As salesman in hardware store. Several years' experience. Best of references. Address C. F. Brady, Shelton, Neb. 13

Situation Wanted—As salesman in hardware store. A1 builders' hardware and stove salesman. Would travel, if necessary; can furnish references. Address "A. R.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12

Situation wanted—By a young man 21 years old, and am German. Have had 5 year's experience as tinner and hardware clerk, can also repair bicycles and oil stoves. Would like a job as clerk. Nothing but a steady job wanted. Address "Tin," care the AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11

Situation Wanted—By sheet metal worker. Familiar with heating and ventilating. Can lay out his own work and make plans and drawings where necessary. Address "Box 85," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 10

SPECIAL NOTICES.

WANTED

A man with sufficient experience in the stove business to assume the management of the sales department of a reputable manufacturing establishment. State present employment, character and duration of past experience and general fitness to fill position indicated. Communicate with "EXPERIENCE," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 13

WANTED

A 2d hand Geared Double Crank Press for Range Making, about 33 inches between uprights, opening in bed 10x24 inches. Give full particulars, dimensions, weight, condition and price. Address,

"Range Maker"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 13

WANTED

A competent man to take general supervision of the manufacturing departments of a well established stove foundry. Address, giving past experience, present employment and qualifications for position, "Foundryman," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 13

Good Tin Business

in Cripple Creek, Colo.; fine set tools; central location; ground rent only $5.00 per month. Some stock; building and all for $500.00. Mining reason for selling. Address "C. C.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12

WANTED.

Position as bookkeeper or auditor. Have had twelve years' experience. Have lately been manager of large manufacturing firm in Wisconsin. Best of references. Address:

"BOOKKEEPER,"

Care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11

WANTED

Permanent situation by an experienced stove manufacturer, as superintendent or manager. Good character. Steady habits and competent. Address,

"Superior,"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill.

SPECIAL NOTICES.

YOUNG MAN

With good connections in British Isles and Continental Europe wishes agencies for a few lines of American manufacture. Prompt attention. References. Address

MONTAGUE,
39 Paradise Street,
Liverpool, Eng.

50 Hardware Ads...	50c
50 Bicycle Ads	50c
50 Furnace Ads....	50c
50 Implement Ads..	50c
100 Steel Range Ads	100c

Advertising Pays. Get a copy of these ads which are the best used by us. They increase our trade and will yours. Catchy headlines ready for the printer. Stamps taken. Address

H. P. Townley, Terre Haute, Ind.

H. G. Groth
Cedarburg, Wis., Writes:

"Please take out my advertisement for a tinner. I am "overflooded" with letters from all parts of the State, and was able to select one of them."

Modern . . .

Sanitary Plumbing, Steam and Hot Water Heating.

A veritable encyclopedia of practical plumbing, written by James J. Lawler, the well known heating and plumbing expert; 400 pages large octavo, 6x9 inches in size. Describes and illustrates methods of plumbing as constructed at the present date. Tells how to correctly figure on any size or shape of building with steam or hot water. Tells how to find the heating capacity of any shape or make of boiler for steam or hot water heating. The illustrations are numerous. An invaluable work for practical men . . . . . .

Price $5.00.

Sent postpaid on receipt of price by

Daniel Stern,
69 Dearborn St., Chicago.

THE MAN WHO SELLS STOVES
should lose no time in becoming acquainted with
DIXON'S GRAPHITE CEMENT
It is the most effective article in existence for the repairing of firebrick in stoves and furnaces. We will send you sample and prices free for the asking.
JOSEPH DIXON CRUCIBLE COMPANY *Jersey City, N. J.*

ILLUSTRATION SHOWING
JONES' RATCHET COPING SAW
IN OPERATION.

The Jones Ratchet Frame is constructed with a steel back and Ratchet arrangement (see illustration) which enables the workman to quickly set the blade at any angle by the handle and button at the other end of saw frame (see letter A).

Jones & Dommersnas,
31 & 33 Indiana St., - - - - CHICAGO.

The Quicklight Lamp

is the only lamp fit for house use. No noise, no flicking out, but is quiet, and a steady light. Made in DOUBLE, SINGLE and STAND LAMPS. Write for circular and price list, and terms to agents.

THE GREAT OBJECTION to all of the different makes of gasoline lamps **heretofore offered** to the public has been that they require **generating**, which means tiresome delay in lighting, difficulty in keeping in working order and heavy expense for repairs; the different parts of the lamps being complicated. There is also the expense of **alcohol**, which is an absolute necessity with all **generating lamps**. The "Q" requires no generating, no alcohol, no waiting, it is operated the same as ordinary city gas, **lights instantly**, can be **turned up or down**, as desired, and is absolutely safe.

You are doubtless familiar with generating lamps and the many disagreeable features. No generating lamp will sell at any price where our **Quicklight Lamp** is known, and as a gift the generating lamp will soon cost more money for alcohol, repairs, etc., than our lamp at full retail price.

We are not trying to compete with cheap Lamps. You can buy them at any price. We prefer to offer you the best lamp ever made.

We guarantee entire satisfaction. Patented July 24, 1900.

Quicklight Mfg. Co.

204 State St., Chicago.

Frank Cornelius, Oshkosh, Wis., writes:
"I have all of your Manuals up to date, and they make quite a nice encyclopedia, and I often refer to them. They are certainly a great help, and should be of especial use for the younger class that are trying to become good machinists."

CUT THIS OUT.

To the Publishers **THE AMERICAN ARTISAN,**
69 Dearborn St., Chicago.

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars, for one year's subscription, or 50 cents in case we decide to discontinue.

NAME _____

ADDRESS _____

TOWN _____

STATE _____

Trade "M&M" Mark

The "M & M" 450 CANDLE POWER ARC LAMP

Trade "M&M" Mark

THE BEST IS THE CHEAPEST.

STORE LAMP. Patented.

Burns 12 to 15 hours with one filling. Diffuses more light than any electric arc. Does not affect your insurance policy. Permitted by all insurance companies. Absolutely non-explosive, odorless and smokeless. Tried, tested and used commercially for three years. Over 25,000 in practical use. One satisfied customer says:

Joliet, Ill., Mch. 22, 1901.
MARTIN & MOORHEAD,
54 W. Washington St.,
Chicago, Ill.

Gentlemen: We used six of these lamps last year and kept an accurate account of the expense. The gasoline cost us $35 and the chimneys and mantels $20.46 making a total cost of $45.46 for six lamps for a year. We believe we have just as good light as though we had had six electric arc lights, which would have cost us $360.

Yours respectfully,
BARRETT HARDWARE CO.

STREET LAMP. Patented.

There are others. We are saving light consumers thousands of dollars every month. We will furnish full particulars on request. Agents wanted in all unoccupied territory. Exclusive territory given. Our Pressure Mantles without an equal for use with any gasoline pressure light

Acorn Brass Works, DEPT. 4, Chicago.

MICA

ASSORTED PACKAGES.

Put up expressly for the Retail Trade.

ONE POUND—4 SIZES. ¼ lb. each size.			
North Carolina -	$2.00	4½ x 6	2½ x 3
Wyoming - - -	1.70	2¾ x 3¾	2¼ x 4½
TWO POUND—8 SIZES. ¼ lb. each size.			
North Carolina -	$3.75	2 x 3	2¾ x 4
		2 x 4	2¾ x 3½
Wyoming - - -	3.20	3 x 3	2½ x 4½
		3 x 4½	4½ x 6½
THREE POUND—12 SIZES. ¼ lb. each size.			
		4½ x 5	2¾ x 4
North Carolina -	$5.20	¾ x 4½	2½ x 3½
		3 x 3	2 x 4
		2¾ x 4½	2¾ x 2¾
Wyoming - - -	4.25	2½ x 3	2¾ x 3½
		2 x 3	5 x 6½

ABOVE PRICES NET. NO DISCOUNT.

EUGENE MUNSELL & CO.,
218 Water St., NEW YORK and 117 Lake St., CHICAGO.

The
House Warming Manual
is the Best Heating Book that the World ever knew,

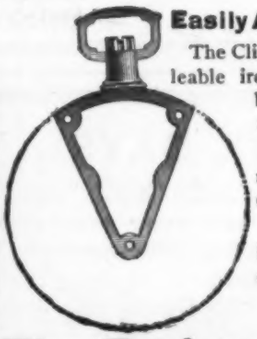
ASK ANY OF THOSE WHO HAVE READ IT.

SOLD BY BOOKSELLERS AT $3.50 PER COPY, OR BY THE PUBLISHER.

DANIEL STERN, 69 Dearborn St., Chicago,

SEND US YOUR ORDER.

The Brohard Damper Clip,



Easily Adjusted

The Clip being malleable iron, will not break in riveting.

Cost no more than all cast.

Sample free to introduce.

Write us.

The Brohard Co.
Phila., Pa.

The Power of Advertising.

No business can be successfully founded or continued without the aid of advertising. Good and convincing advertising is as essential to the winning of business success as a fresh and desirable stock of commodities in the store. It makes the merchant and his goods known, and brings purchasers to his establishment.

AMBER VIOLIN OIL VARNISH

This Varnish is made from the best Italian Amber and is equal in depth, beauty of color and brilliancy to the famous old Cremona Varnish.

Buckeye Paint & Varnish Co., Toledo, O.

DARK DAYS

are a resultant evil where a merchant is obliged to put up with other than **ORIGINAL STOVE REPAIRS,** why not purge your vicinity of that blue air so often due to using the ordinary kind. ORIGINAL ORDER-BOOK with first shipment free.

UNION STOVE REPAIR CO.,
2852-2854 Archer Avenue, CHICAGO.

Repairs For all Stoves

Great Western Stove Repair Co.
MINNEAPOLIS, MINN.

Stove, Range and Furnace **REPAIRS**
OF ALL KINDS.
American Stove Repair Works,
186-188 West Seventh Street, ST. PAUL, MINN.

REPAIRS FOR ALL **STOVES** AND **RANGES.**

A. G. Brauer, 316-318 North Third St., ST. LOUIS, MO.

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

FOR **MICA**
Sheet, cut or uncut, Powdered and Flake
WRITE TO
ASHEVILLE MICA CO.
ASHEVILLE, N. C.

Why not remodel your Oaks and Oval air-tights so as to use cast-iron where you now use sheet steel? More attractive!
Planished and Sheet Steel will be scarce.
The Gobeille Pattern Co., Cleveland, O.

THE GEO. W. COPE
STOVE PATTERN WORKS,
Randolph and Atwater Sts.
DETROIT, MICH.

Experience. Correctness.
Acme Pattern Works
STOVE and HEATER
Patterns
AKRON, OHIO.
Promptness. Satisfaction.

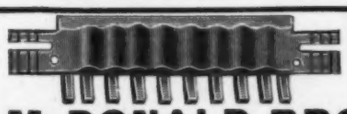
Indianapolis Artistic Pattern Works,
Cor. Fenneman and Minnesota Sts.
INDIANAPOLIS, IND.
Perfect Work. Right Prices.
Special Stove and Furnace Patterns.

B. S. ESTES,
Devil's Lake, N. D., writes:
"I have secured a good man, thanks to my ad. in The American Artisan. You have my heart-felt thanks."

REPAIRS FOR ALL STOVES

Pipe Dampers, Mica,
Stove Rods, Paste, Stove Putty,
Stove Knobs, Etc.

Wm. T. Dust Co.,
231 Brush St., DETROIT.



Repairs for Stoves and Ranges.

McDONALD BROS., 108-114 Liberty Street, Columbus, Ohio.

Stove Repairs.

We have the patterns of the CHICAGO & ERIE STOVE COMPANY, and can furnish repairs for said stoves.

THE DEPINET FOUNDRY COMPANY

ERIE, PENN'A.

M. Brucker,

Manufacturer and Jobber of

Stove and Range Repairs.

FOUNDRY, OFFICE AND WAREROOMS

325 to 331 North Lincoln St.,

CHICAGO.

J. L. Morris Stove Repair Co.

Wholesale and Retail Dealers in

Stove and Range Repairs, Mica, Etc.

OFFICE AND WAREROOMS

29 and 31 Desplaines Street, Chicago.

Sole Western Agents for BURDETT, SMITH & CO., and other Manufacturers' Original Repairs.

To Stove Dealers

NOTICE.

Do you know that the new A-B dealers' stove polish is made dry and you can thin it as you wish. It is the cheapest, blackest, brightest and easiest polish to use—no dust—no rust—waterproof. Keeps in any climate. Put up in 5-lb. boxes—Patented. No tin cans to pay for. Mixes quicker than paste; no drying up, good always. Used by a great many stove manufacturers who are sending duplicate orders. Send for Free Sample and price list; it will save you money.

AYLING BROS.,

Sole Manufacturers and Patentees of A-B Stove Polish

Office and Works, 14 Haddon Ave.,

Address Department A. CHICAGO, ILL.

SELECTED

MICA

ONLY

Prepared expressly for the Stove and Hardware Trade.

Two Grades: "North Carolina" and "Nevada."

Price Lists and Discounts Sent on Application.

The Palermo Mica Co.,
115 BEEKMAN ST., NEW YORK.

ORDER YOUR

Repairs for Stoves, Ranges and Furnaces

FROM

City Stove Repair Co.

CLEVELAND, OHIO.

We guarantee prompt and careful attention. Send for Order Slips.

Black Silk

Stove Polish is as much blacker than blacking as blacking is blacker than black coffee. Put up in sizes to suit. This polish is IT when it comes to fineness and goodness. Write for Prices.

Lewis D. Wynn,
Sterling, Ill.

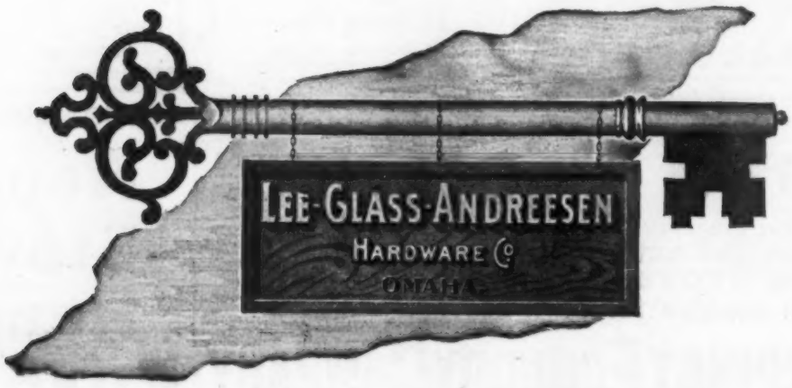
KEEP AT IT.

One step won't take you very far—
You've got to keep on walking;
One word won't tell folks who you are—
You've got to keep on talking.

One inch won't make you very tall—
You've got to keep on growing;
One little ad won't do it all—
You've got to keep them going.
—Joliet (Ill.) Republican.

HARDWARE
CUTLERY

BICYCLES
SPORTING GOODS



GUNS
RIFLES

TINPLATE
AMMUNITION

Peters Cartridges

Peters Cartridges

Peters Cartridges

LOADED WITH
KING'S
SEMI-SMOKELESS
POWDER

Hold the World's Records. A FULL LINE OF THIS AMMUNITION FOR RIFLE, REVOLVER AND PISTOL.

AMMUNITION OF TO-DAY.

A FEW OF MANY RECENT VICTORIES

WON

- Indoor Rifle Championship for United States, **1898, 1899, 1900, 1901.**
- Interstate Rifle Match, Sea Girt, N. J., 1900.
- Interstate Regimental Team Match, Sea Girt, N. J., 1900.
- Allcomers' Military Match, 1900.
- New Jersey Rifle Ass'n Trophy Match, 1900.
- Winchester Match, Sea Girt, N. J., 1900.
- Revolver Reentry Match and Revolver Team Match, Sea Girt, N. J., 1900.

Ammunition Loaded With **King's Semi-Smokeless Powder,**

MADE HIGHEST SCORES IN International Revolver Match, (America vs. France), 1900. Won the Wimbledon Cup Match (30 shots at 1000 yards), 1900. The Rifle Championship for Greater New York and vicinity (100 shots at 200 yards), 1899-1900.

The above wonderful records tell the whole story of unequaled accuracy, velocity, trajectory and uniformity. **THESE CARTRIDGES NEVER DETERIORATE.** They shoot with little noise and slight smoke, and can be used for a day at a time without the necessity of cl-aning the gun. **Peters Cartridges** have been tested, and are now **USED BY THE WORLD'S EXPERTS.**

Handy Book for Shooters and Sportsmen sent free to all applicants.

The Peters Cartridge Co.,

Government Square, Cincinnati, Ohio.

EASTERN BRANCH: { **T. H. KELLER, Manager,**
80 Chambers Street, NEW YORK.

Peters Cartridges

Peters Cartridges

Lackawanna Railroad

The Scenic Line
TO
New York City

Palatial Solid Vestibuled Trains
Superb Dining Cars
(Meals a la Carte)
Observation Cars **Latest Pullmans**
Elegant Day Coaches

3 THROUGH TRAINS DAILY from CHICAGO 3

Leaving Chicago	Arriving New York
10.35 a. m.	3.35 p. m. next day
2.30 p. m.	7.30 p. m. next day.
10.30 p. m.	7.10 a. m. 2d day.

Rates $18.00 First Class
$16.00 Second Class

CITY TICKET OFFICE: 103 Adams Street
GEO. A. CULLEN, Gen'l West'n Pass. Agt.
CHICAGO

O. C. Jamison, Homer, Ill., writes: "I FIND MY ADS. IN YOUR ESTIMABLE JOURNAL HAVE BROUGHT GOOD RETURNS."

Simeon L. and George H. Rogers Company

The United States Circuit Court for the District of Connecticut, Hon. Nathaniel Shipman, Judge

HAS NOT ENJOINED

us from doing business under, and marking our goods with, our name as above.

The "Trust" has not stopped us from making and selling silver plated ware; nor can it do so. The trade can safely buy of us and handle our goods, which we guarantee of full standard quality; the equal of any on the market.

SIMEON L. and GEORGE H. ROGERS COMPANY

SILVERPLATERS

Factories:
Hartford, Conn. and Wallingford, Conn.

P. O. Box 1205
Hartford, Conn.

Peoria Washing Machines.

BEST IN THE MARKET.
MADE WITH BALL-BEARINGS.

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.
Send for Catalogue.
Secure the Agency.

CLARK, QUIEN & MORSE,
PEORIA, ILL.

Gee Whizz Washer

A Novelty and a Winner.
Does what it is intended and guaranteed to do.

Made without hoops or staves, will neither shrink, leak nor fall down. The labor saving washer of 20th Century. Our circular describes the reflex motion and tells why it whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.
You want the agency.
Write for particulars to

RANDLEMAN & SONS, Des Moines, Iowa.

THE ORIGINAL BRAMMER Rotary Washer.

An especially well made and light running machine and GUARANTEED TO GIVE SATISFACTION.
A simple, powerful and durable movement. This very substantial tub is made from a select quality of Cypress lumber.
Made also in the detachable leg style, as well as square.
We manufacture the most complete and satisfactory line of Washers on the market. Send for illustrated catalogue.

BENBOW-BRAMMER MFG. CO.,
1007 N. 13th Street,
FACTORIES: St. Louis, Mo., Davenport, Ia.
ST. LOUIS, MO.

BIG FOUR ROUTE

Chicago to { Indianapolis, Cincinnati, Louisville, the South and Southeast

Peoria, St. Louis, Indianapolis, Cincinnati, Louisville } To New York AND The East

W. P. DEPPE, A. G. P. & T. A.
W. J. LYNCH, G. P. & T. A.
CINCINNATI.

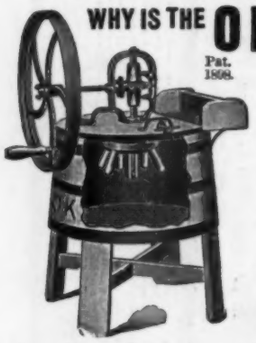
J. C. TUCKER, G. N. A., 234 Clark St., Chicago

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.
Stays where you put it, and is absolutely soot and smoke proof.
Made either plain or decorated.
Send for miniature sample and prices.

Welling Manufacturing Co.,
Columbus, O.

WHY IS THE O K THE BEST ROTARY Washing Machine?



Pat. 1898.

BECAUSE

1.—It is the only Rotary Washer that has **Revolving Steel Ball Gearing**, reducing **the friction** and thus making machine so **light running** and almost **noiseless.**
2.—The tub is made of **Louisiana Red Cypress Lumber**, cherry finish; the legs are **solid with tub**, (not removable, breakable legs fastened with screws).
3.—The wheel turns right or left, pin wheel or dasher reverses automatically, turning the clothes back and forth through the hot soap-suds, and cleaning them without **rubbing** them to pieces.
4.—This washer is made by **experienced mechanics**, and will outlast any other washer on the market.
5.—The tub has a wringer box fastened with steel brackets.
6.—The lid on tub closes tight, **no escape of steam.**

MANUFACTURED BY
H. F. BRAMMER MFG. CO., Davenport, Iowa.

Persistent Advertising

One who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, and apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—[*Advertising Experience.*

Good Advertising

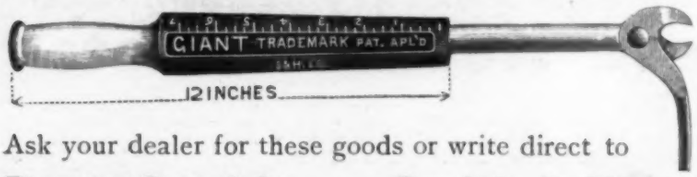
Means Constant Advertising.

MONEY spent on this account during periods of prosperity brings its fullest returns in dull times. Don't let your customers forget you simply because you are busy now. Keep your name before the public.

Louis O. Schuetz,

Evanston, Ill., writes:

"I thank you very much for putting my adv. in THE AMERICAN ARTISAN. I have a man now, and would like to have you cancel the adv., because we are getting letters from all parts of the country."



In the **GREEN BOOK** of Hardware Specialties is illustrated the only Genuine Giant Nail Puller there is. There are plenty of imitations. Beware of them.

Ask your dealer for these goods or write direct to

Thomson Bros. & Co., Utica Drop Forge & Tool Co. **Smith & Hemenway Co.,** **296 Broadway, New York City.**

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS **Sold by All Hardware Dealers**

NEW BRITAIN, CONN.

THE "DISSTON SAW" WILL DO MORE WORK WITH LESS EXERTION AND HOLD ITS CUTTING EDGE LONGER THAN ANY OTHER BRAND OF SAW.

Fully Warranted as to Material and Manufacture.

Henry Disston & Sons, Inc.,
Keystone Saw Tool Steel & File Works.
Philadelphia, Penna.

For Additional Information Send a Postal For Our Pamphlet "Practical Hints To Mechanics."

No other "Just as Good" as the

Enterprise Food Choppers

TINNED

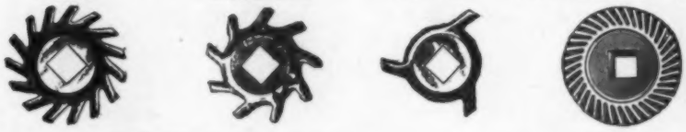
Now made in TWO sizes

No. 100, chops 2 lbs. per minute, $1.50

No. 300, chops 3 lbs. per minute, $2.25

FOUR KNIVES WITH EACH MACHINE

Fine Medium Coarse Nut Butter Cutter



Order from your Jobber
Catalogue mailed Free

The Enterprise Mfg. Co. *of* Pa.

New York Branch, 10 Warren Street — Philadelphia, U. S. A. — San Francisco Branch, 105 Front Street

Sperry's Steam Kettles.

Made from very thick metal, without Stay Bolts, Joint packed in such a manner as to never need repacking. A little higher-priced than some, but they are safe and tight.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
.....BATAVIA, ILL.

CHAPIN & RUE
CHARLOTTE, MICH.,
WRITE....

"We could not get along without The American Artisan, and look for same each Sunday same as we do for our Sunday paper. If the retail dealers would read your paper regular from first page to last as they should, your circulation would increase largely."

Eccentric Stove Kettles and Pots.

The peculiar construction of bottoms enables one to use these goods on either size hole designated by the number, say 6 and 7, a feature that is self recommending to all dealers. They can also be used on smaller top stoves by turning the narrow rims of bottoms together.

Blacklock Foundry,

South Pittsburg, Tenn.

"Yankee" Drills

MAGAZINE FOR DRILLS IN No. 40 AND 41

No. 40—AUTOMATIC DRILL, WITH RATCHET MOVEMENT

No. 41—AUTOMATIC DRILL

No. 42—AUTOMATIC DRILL

No. 50—RECIPROCATING DRILL FOR WOOD OR METALS

Sold by Leading Jobbers. Send for "Yankee' Tool Book.

North Bros. Mfg. Co., Philadelphia, Pa.

The Imperial Lighting System

PATENTS PENDING.

Economical, brilliant, durable, reliable and simple to operate. A light equal to an electric arc at a very low cost.

The Imperial Lighting System is far superior to the Electric Arc, being softer, whiter and absolutely steady. From a tank the gasoline is conveyed throughout an entire building through a flexible copper tube that can be put through crevices, around corners and concealed the same as electric wires, and as many lights as may be desired can be supplied from the same tank. The Imperial System burns common stove gasoline, gives a 1,200 candle power light, and one gallon of gasoline burns 16 hours.

All lamps are fully guaranteed, and are trimmed complete with full instruction as to installing and operating the system.

We also manufacture a complete line of Gravity and Air Pressure Lamps. Write for illustrated catalogue.

THE IMPERIAL GAS LAMP CO., Sole Manufacturers,

132-134 E. LAKE ST., CHICAGO, ILL., U. S. A.

Send 10c. in Stamps for Free Sample of **"Solid-Steel" Lava Enameled Ware.**

The Cleveland Stamping and Tool Co., CLEVELAND, OHIO.

Bee Sharp

...and buy the...

Sheet Metal Workers Guide.

A Practical Handbook for Tinsmiths, Coppersmiths and Zinc Workers. A collection of rules and diagrams for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. CRANE. Price, postpaid, 60 cents.

DANIEL STERN,
69 Dearborn St., Chicago.

The House Warming Manual

Contains the Essays on Warm Air, Hot Water and Steam Heating submitted in THE AMERICAN ARTISAN competition for $300.00 prizes.

The House Warming Manual

Contains the combined wisdom of leading experts in the three great branches of heating, rather than the conjectures of a single man.

The House Warming Manual

Is up-to-date, not out-of-date;
Practical, not theoretical;
And is in fact a mirror of the heating practice of to-day.

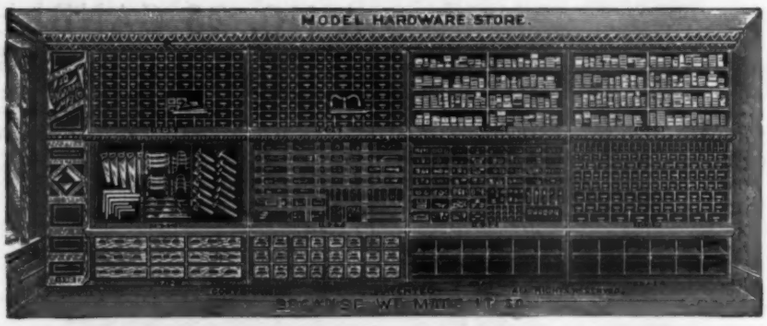
270 pages. Bound in red, with cover embossed with gold.

Price, $3.50 per Copy.

ADDRESS:

DANIEL STERN,
69 Dearborn St., CHICAGO.

Make Your Stock Sell Itself—Write and ask how



EXPERT DESIGNERS OF HARDWARE SHELVING.

J. D. WARREN MFG. CO. - - Chicago.

OFFICES: Dept. D. Rooms 502-503 Masonic Temple.

ELECTRICITY? NOT MUCH!!!

It's the wonderful one-gallon

DORAN LIGHT.

Equal in every way to an Electric Arc Light at one-tenth the cost.

They can be turned up or down at will and are the most diffusive lights on the market today.

RESPONSIBLE AGENTS WANTED IN EVERY TOWN WHERE WE ARE NOT REPRESENTED.

THE SALE OR RENTAL OF DORAN LIGHTS WILL GIVE YOU AN INCOME OF FROM $200 TO $1000 PER MONTH.

Mr. W. C. Coleman, of Fort Worth, Texas, who has several offices throughout the west, says, under date of July 7th, 1901—"I have an income of $1000 per month after having handled your lights for two years."

We protect our representatives in the territory that we assign them.

Send for catalogue and descriptive matter.

ACORN BRASS WORKS, Dept. H, Chicago, Ill.

Call The Roll

of States and seehow the Asbestos Sad Iron is conquering the great West.
Here are expressions of a few dealers:

Kansas: "They are giving entire satisfaction."
Nebraska: "The Asbestos Sad Irons are the only irons we sell now."
Colorado: "Your Irons are splendid sellers."
Minnesota: "I wish you would enter my order for 3 dozen sets of Sad Irons, same as I had before."
Iowa: "Your Asbestos Sad Irons are good sellers and they give perfect satisfaction."

The only perfect sad iron on the market.
Are you pushing our Laundry Iron?

The Dover Mfg. Co.

Successors to Asbestos Sad Iron Co. **Canal Dover, O.**

The House-Warming Manual.

Is beyond all doubt the best book published on practical house-heating.

It contains the plans and essays on heating a house submitted in THE AMERICAN ARTISAN House Warming Competition for $300.-00 prizes, and is in fact

An Encyclopedia of the Most Modern and Improved Practical Methods of Heating a House by Steam, Hot Water and Warm Air.

The Chicago Journal of Commerce, of July 20, '96, says in course of a lengthy and commendatory review:

"The volume is a well-bound and artistically printed and illustrated volume of nearly 300 pages, and contains some masterly essays on steam heating, hot water heating and warm air heating. Nearly every prominent authority in this field is quoted, and an application of principles and improvements suggested covers all technical details in a simplified and practical way. House plans and diagrams accompany the subject matter, which deals specifically with radiation, combustion, ventilation, prices, estimates, and the best and latest methods for placing, connecting and utilizing the apparatus adopted."

PRICE, ONLY $3.50 PER COPY.

For sale by all booksellers or the Publisher,

Daniel Stern,

69 Dearborn Street,

CHICAGO.

The Crusty Bread Pan.

The Mrs. Van Deusen Egg Whip.

The famous Mrs. Van Deusen Cake Molds and Other Household Specialties.

The Mrs. Van Deusen Cake Molds

Magnificent Sellers. Order Samples and you will Always Handle Them.

C. A. CHAPMAN, 1279 EXCHANGE ST., GENEVA, N. Y.

IF YOU LOOK AT A NO. 23 CANDLE

75 Cents Net.

you will want it. Any mechanic who occasionally finds it necessary to work or take a measurement in a dark place cannot help but be pleased with a No. 23 It produces a good strong light, can be carried where needed, may be set down or hung on a nail, can be lighted instantly and blown out when not needed, is absolutely safe, does not leak oil, nor has it any of the objections possessed by a candle, but will produce ten times as much light. Jobbers sell them everywhere, or we will send by paid express on receipt of 90 cts. in stamps or cash. Your money back if it does not please.

Clayton & Lambert Mfg. Co.
DETROIT, MICH., U. S. A.

Standard Chain Company.
Chain of all Kinds.
Pittsburgh, Pa.

The O K Steel Brake.
Patented March 28, 1901.

Merit always wins — that is why the O K Steel Brake has found favor among cornice-makers and tinners all over the country.

There were 300 sold during the last year. Our No. 4 is in the lead with 145. It does not pay, even for a small shop to be without it.

Run your shop up-to-date with the O K machine—work faster. Price of brakes cut in two.

Particulars on application.

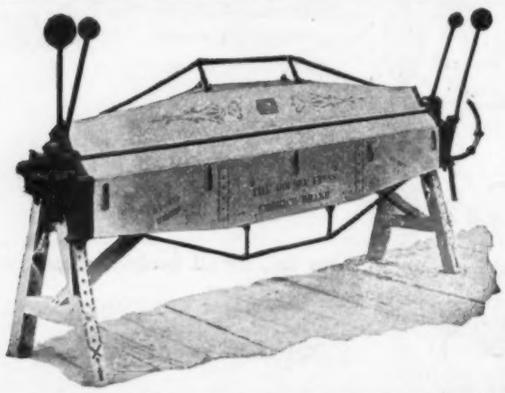
Dreis:, Andrews & Krump, Successors to O K MFG. CO.
3039 and 3041 So. Halsted St., Chicago, Ill.

FOX
Brand Razors
Are Known as the Best.
We make all widths and Styles. The Fox Trade Mark is Registered. Send for Catalogue.

FOX CUTLERY CO.,
928 Main St., Dubuque, Ia. 48 Center St., New York, N. Y. Canandaigua, N. Y.

E. J. Schultz, Kewanee, Ill., writes:

"I can say that my advertisement in The American Artisan convinces me that I cannot afford to be without your paper."



THE NEW IMPROVED
Double Truss Cornice Brake

works on the same principle and does the same work, both in quality and quantity, as ordinary Iron Brakes and it is much cheaper in price. We guarantee them to bend No. 22 gauge iron or lighter, easily, straight and true.

J. L. Perkins & Co., 241 Lake Street, CHICAGO.
Western Agents

DOUBLE TRUSS CORNICE BRAKE CO., Buffalo, N. Y.

JOHN PORTER, ALTOONA, PA., Writes: "I can't run my shop without THE AMERICAN ARTISAN."

OLD DOMINION

Horse, Mule Shoes.

All the popular styles and weights.

Illustrated catalogue and prices on application.

Old Dominion Iron and Nail Works,

ARTHUR B. CLARKE, Prest. Richmond, Va., U. S. A.

VALVES AND PLUNGERS

Only the very best leather and rubber are used in these goods and all are carefully and evenly fitted, making them the best of their kind.

BERGER BROS. CO.,

PHILADELPHIA

Ask Your Dealer For The

GEM SOLDERING FURNACE

AND YOU WILL MAKE NO MISTAKE

Always Ready. No Smoke. No Odor. No Noise. Unexcelled. Unequaled. Unrivaled. Safe, Sure. Durable.

Made Only By

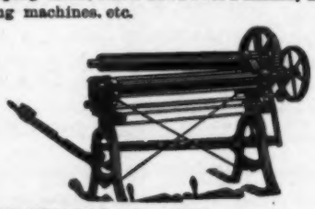
Thirty Years Experience.

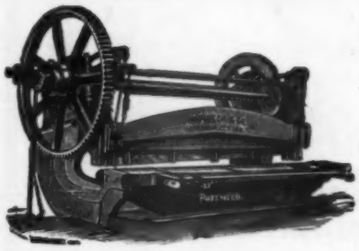
Burgess Soldering Furnace Co.,

COLUMBUS, OHIO, U. S. A.

Improved Shears and Gauge Punches, with o. without engine, or Direct Steam Shears. 8 different styles [hand or power].

Automatic Self-Opening Rolls, quickly and easily adjusted, all sizes to 20 feet. Also Crimping Rolls, Hand and Power Punches, Labor-saving machines, etc.





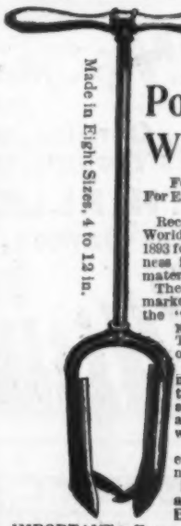
BERTSCH & CO., • • Cambridge City,

Greig Brothers, Mitchell, Iowa, write: — "Please discontinue ad for Tinner, we have had applications from Ohio to Northern Wis."

TACKS

TOWER M'F'G. CO.

ELM & FRONT STS.
CINCINNATI, O.
MANUFACTURERS



Iwan's

Patent Improved

Post Hole and Well Auger,

For Post Holes and Wells.
For Electrical and Telegraph Purposes.

Received Highest Award World's Columbian Exposition 1893 for convenience and effectiveness in operation, excellence of material and construction.

There are other augers on the market, claimed to be as good as the "Iwan" Auger. THEY ARE NOT. BEWARE OF THEM. The "Iwan" is the standard of excellence.

It is the only auger that has met with universal satisfaction under all conditions of soil. It is unexcelled for easy and quick work. No suction when removed from hole.

It should be in the hands of every dealer, or any one who needs a good post hole auger.

Received Highest Award at World's Columbian Exposition.

IMPORTANT.—Every Auger bears our stamp and label.

We manufacture also Post Hole Diggers, Drain Cleaners, Chimney Tops, Conductor Pipe Hangers, Hay Knives, etc.

Sold by the jobbing trade. Write for prices and illustrated circular. Manufactured exclusively by

IWAN BROS.,

STREATOR, ILL.

Just a Little Higher

in price, but so much

HIGHER IN QUALITY

that the great majority of dealers prefer to sell

Caldwell Sash Balances

They can recommend them with clear conscience. Write for catalog.

Caldwell Mfg. Co.

2 Jones St., Rochester, N. Y.

CHAS. F. HARTMAN,

FOND DU LAC, WIS., writes:

"No hardware dealer or tinsmith should be without The American Artisan."

If
You Want
The Latest Designs,
and
Best Fitting
METAL CEILINGS
On The Market,
We Make Them.
Also
Cornice, Skylights,
Eaves Trough, Conductor Pipe.
J. H. ELLER & CO.,
Canton, Ohio.

Hardware Dealers
Can Handle
Northrop's Stamped
Steel Ceilings
and do well for their customers and themselves. Send for catalogue—give diagram and description of room for an estimate and we will do the rest.
H. S. Northrop, 53 Cherry Street, New York.

Genuine Russia
Sheet Iron.
28 x 56 inches.
Perfect Nos. 7 to 12 inclusive.

No. 1	Stained	Nos. 7 to 10
No. 2	"	" 8 to 12
No. 4	"	" 8, 11, 12

Charcoal Tin Plates, Coke Tin Plates,
Apollo Galv'd Sheets, Cold Rolled Soft Steel.
Send us your orders or inquiries
for immediate shipment.
Bruce & Cook,
190 Water St., New York City

Sheet Metal Ornaments
Steel Ceilings and Hose Pliers
WE MAKE THE FINEST CRYSTALLIZED
STOVE BOARDS
ON THE MARKET.
MICHIGAN HARDWARE MFG. CO.
Grand Rapids, Mich.

The Powers
Automatic
Chimney Top
IS BEST ON EARTH.
Is only one with brace adjusting and holding cover. Is most perfectly and scientifically made. Is more used than all others combined. Sold by Leading Hardware Jobbers and Dealers. Made only by
POWERS BROS.,
STREATER, ILL.
Write for Prices, Etc.
Irons only or
Complete.

VICTOR
For public buildings of every character where first-class roofing is a consideration, our galvanized
VICTOR SHINGLE
is unequalled.
Deeply embossed.
Presents attractive appearance.
Telescope Side Lock.
Catalogue fully describes them.
Montross Metal Shingle Co.,
CAMDEN, N. J.

The "Centennial"
Rain-Water Cut-Off.
The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
Patent applied for.
Manufactured only by

COONEY & GEIGER,
19 & 21 E. South St., INDIANAPOLIS, IND.

Our "Confidential"
Catalogue No. 115
Is intended Exclusively for the legitimate Hardware trade, and no Hardware man will find it difficult to compete in price and win the trade of every economical buyer if he has one.
It contains a bargain list of merchandise bought by us at
Sheriffs', Receivers', and
Manufacturers' Sale, such as
Horse Shoes @ $48.00 a ton
Single Bit Axes @ 3.25 a doz.
and hundreds of bargains in an extensive line of Steel Roofing, Plumbing Material, Machines, Builders' Hardware, etc.
Write for it Today.
Chicago House Wrecking Co.
West 35th and Iron Sts., CHICAGO

Geo. W. Brown, Jr., Hillsboro, Ill., writes: "You may kindly discontinue our WANTED TINNER adv. that you have so kindly carried for us the past three issues. I have received replies from Vermont to Dakota, and think that we have secured a good man."

Send your orders to us. We have a large stock and guarantee prompt shipments.

We manufacture

Roofing, Siding, Ceilings, Eaves Trough, Conductor Pipe and Trimmings, Tin Plate, Solder and Sheet Iron

La Crosse Steel Roofing & Corrugating Co. La Crosse, Wis.

SEND TO THE

Willis Manufacturing Co., Galesburg, Ill.,

For a copy of their NEW CATALOGUE (Just Issued) of CORNICE ORNAMENTS AND STATUARY.
Also send in Architects' Details for Estimates.

The Perfection Rain-Water Cut-Off.

EXCELS ALL OTHERS IN SIMPLICITY—STRENGTH—DURABILITY.

Klauer Mfg. Co.

SOLE MANUFACTURERS, DUBUQUE, IA.

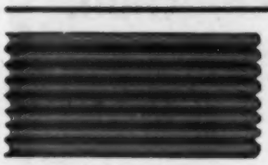
SUCCESSORS TO W. A. SMITH & CO., PATENTEES, LIMA, O.

GARRY IRON & STEEL ROOFING COMPANY

CORRUGATED

ROOFING SIDING & CEILING

CLEVELAND OHIO.



Write us for Catalogue and Low Prices on BEST

Steel Roofing, Corrugated Iron, Etc.

We are large manufacturers of these goods and can save you money.

SYKES STEEL ROOFING CO. Chicago, Ill., and Niles, Ohio.

"Eagle" Brand Copper Rivets and Burrs.

STANDARD FOR QUALITY. (Lake Superior Copper.)

—MANUFACTURED BY—

THE PLUME & ATWOOD MFG. CO.,

29 Murray St., NEW YORK. 196 Lake St., CHICAGO, ILL.

Bradner Smith & Co.

Paper Makers,

CHICAGO.

BUILDING,
WRAPPING,
WRITING,
NEWS,
BOOK

Paper

Send for Catalogue.

S. C. SMITH, President — WM. BRAY, Treasurer — B. W. RIBBLE, Secretary

The East Bangor Consolidated Slate Co.

.... MANUFACTURERS OF ....

Laundry Tubs, Burial Cases, Urinal Stalls, Tiles, Genuine Bangor Roofing Slate and General Structural Slate.

EAST BANGOR, PENNSYLVANIA.

The Southern Railway

and

The Mobile and Ohio Railroad

through its Land and Industrial Department invite prospectors, investors, manufacturers and homeseekers to investigate propositions in all lines.

Come and see what splendid opportunities the South affords. Reading matter, maps and detailed information sent free upon application to

M. V. RICHARDS, Land and Industrial Agent, Washington, D. C.
W. L. HENDERSON, Agent, Land and Industrial Dept., St. Louis, Mo.
J. F. OLSEN, Agent, Land and Industrial Dept. 225 Dearborn St., Chicago.

GEO. F. DUERRE, Plainview, Mich., writes:

"Kindly stop advertisement for a tinner. I have got one and applicants by the dozens."

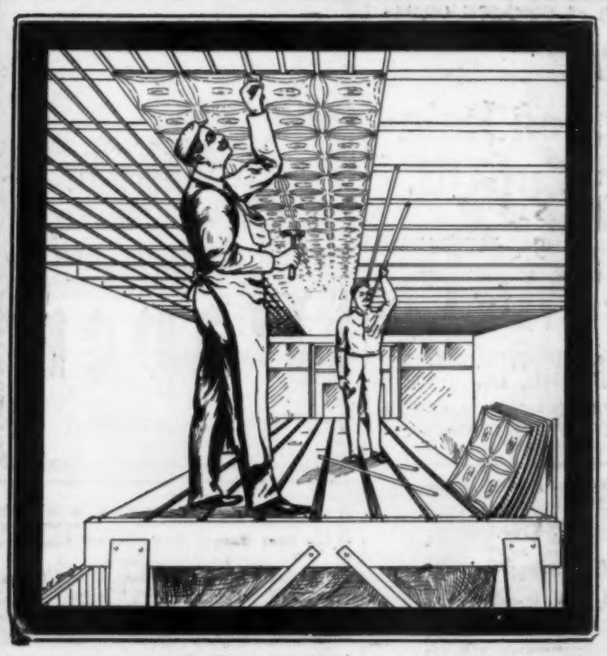
BEAUTIFUL

Canton Steel Ceilings are beautiful. They attract attention wherever you see them. They are easy sellers and you can make a good profit on them.

We are headquarters for Cornice, Skylights, Fireproof Doors and Shutters.

SEND FOR CATALOGUE OF DESIGNS AND PRICES.

THE CANTON STEEL ROOFING COMPANY,
CANTON, OHIO.



Erecting THE Material

There's nothing complicated about erecting our Metal Ceilings.

Any ordinary mechanic can successfully do the work.

1st. Our construction drawing shows where each piece belongs.

2nd. Our material is easily handled, fits properly, and readily goes to place. Hence, it's an easy matter to secure the right results.

One reason it's so easy to erect our ceilings is because there are so few pieces to handle.

Our special constructional features, such as the stamping of field plates, where practicable, in long lengths, the stamping of cove and molding in one piece, the stamping of border and molding in one piece, etc., secure this result.

Thus we reduce number of joints and simplify work of erection.

NEW YORK OFFICE, 210 E 23rd St., New York, N. Y.
PHILADELPHIA OFFICE, 1013 Arch St., Philadelphia, Pa.
NEW ENGLAND BRANCH, 176 Federal St., Boston, Mass.
WESTERN BRANCH, 19 & 21 S. Main St., St. Louis, Mo.

The Berger Mfg. Co. Canton, Ohio.

SPECIALTIES:—Ceiling, Roofing, Siding, Eave Trough, Conductor Pipe, Hangers, etc., etc.

American Tin Plate Company

MANUFACTURERS . . . . .

Tin Plate
Terne Plate
. . . and . . .
Black Plate

GENERAL OFFICES: Battery Park Bldg. New York.

It is made of Steel.

White Tile Top.

Tin or Brass Scoop.

Brass Dial.

IMPROVED
YOUNG AMERICA SCALE.
BEST IN THE WORLD.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20-pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY

AMERICAN CUTLERY CO., CHICAGO, ILL.

Tools for Sheet Metals

Tinsmiths'
Roofers'
Cornice
Makers'
Tools

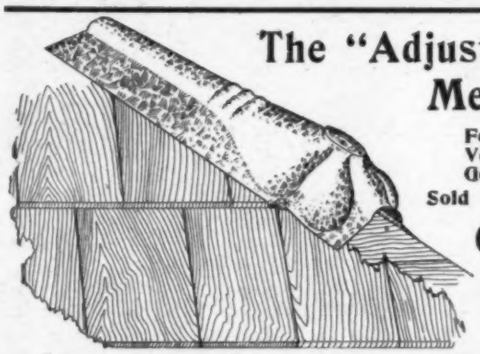
Shears, Presses and Dies, Punches, Rolls.

MADE BY

Niagara Machine and Tool Works

Send for Catalogue A. Buffalo, N. Y.

HOMESEEKER EXCURSIONS
On First and Third Tuesdays in each month to
VIRGINIA,
Via NORFOLK & WESTERN RAILWAY.
For all information as to RATES and TICKETS and for LAND PAMPHLETS and descriptive matter, address ALLEN HULL, D. P. Agt., Columbus, Ohio.



The "Adjustable" Stamped Metal Hip Shingle.

For Shingle or Slate Roofs.
Very Ornamental.
Good Sellers.
Sold to Dealers Only. Mfd. by

Galesburg Cornice Wks.

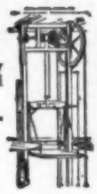
GALESBURG, ILL.

WRITE FOR DESCRIPTIVE CIRCULAR.

ELEVATORS

Improved, Quick and Easy Rising Steam and Hand Power.

Kimball Bros. Co.
1061 9th Street
Council Bluffs, Iowa
Omaha Branch,
108-110-112 North 11th St.



Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

Magic Pattern Rule

Will lay out patterns for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammell. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction. Price, complete in a nice wooden box with Chart. $4.00 net cash. (Mention THE AMERICAN ARTISAN.)

Lufkin Rule Co., Saginaw, Mich.

Send us your orders for

COKE PLATES
CHARCOAL BRIGHT PLATES
TERNE PLATES
GALVANIZED IRON
EAVES TROUGH, CONDUCTOR
ROOFING AND SIDING

We have a large stock and can make immediate shipment.

Illinois Roofing & Supply Co.

23 Lake St., CHICAGO.

The fact of the matter is, from an Architect's standpoint, a Cortright Metal Roof is an everlasting proof of his good judgment.

CORTRIGHT METAL ROOFING CO.,
50 N. 23rd St., Phila.

Don't Be Deceived but insist on

McClure's Genuine Charcoal Iron Redipped Roofing Tin.

McCLURE & CO.,
Manufacturers of Tin Plate,

PITTSBURGH, PA., 211, 213 and 215 Second Ave.
PHILADELPHIA, PA., 115 North 7th Street.

STEVENS

ALL STEEL TOOLS ARE STANDARD.

They are very popular with machinists, and dealers find them profitable goods to handle. If you do not carry them on your shelves it will pay you to put in a complete line.

All leading jobbers handle our complete line.
Send for our ca alog, full of valuable information.

J. STEVENS ARMS & TOOL CO.
No 245 Broadway, CHICOPEE FALLS, MASS.

Furnace Men's Supplies

Registers At old list and discount.

Hot Air Pipe Excelsior Standard Wall Pipe.
Excelsior Standard Round Pipe.
Excelsior Sectional Double Wall Pipe.
Michigan Safety Double Wall Pipe.

Cement Pecora and Crown.

Asbestos Paper 10 and 14 lb. to sq. yard.

Heater Pipe Sizes: 20x28, 130 lb., 190 lb., 200 lb. IC, IXL, IX, 2 X.
20x26, IC, 19¼x28, IC.
20x29½, ICL, IXL
20x[illegible]½, ICL, IXL, IX.
20x39, IXL, IX.

The J. M. & L. A. Osborn Co.,
26-36 THE VIADUCT, CLEVELAND, O.
Columbus Address, 39 Vine St.

We Solicit Your Orders for Prompt Shipment for All Kinds of Tin Plates

N. & G. TAYLOR CO.,
MANUFACTURERS
TIN AND TERNE PLATES,
Philadelphia.

Chicago, St. Louis, Kansas City, New York, Omaha, Denver

Two Gold Medals AT THE Paris Exposition

WERE AWARDED ATKINS' SAWS.

We Are Headquarters for **Saws of All Kinds,** Saw Tools and Saw Mill Specialties.

E. C. Atkins & Co. Inc.

INDIANAPOLIS, IND.
BRANCH HOUSES: Memphis. Minneapolis. Atlanta. Portland, Ore. New York City.